

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no
- II. Operator: Grace Petroleum Corporation
- Address: 10700 North Freeway, Suite 620 Houston, Texas 77037
- Contact party: Mike Pavelka Phone: (713) 820-0002
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? yes no
If yes, give the Division order number authorizing the project _____.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- DECLASSIFIED
PLAN 1
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

OIL CONSERVATION DIVISION
SANTA FE

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Mike Pavelka Title Operations Engineer

Signature: Mike Pavelka Date: 1/3/89

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1

Advertisement for the General Public of Notice of the Grace Petroleum Corporation's intent to convert a producing well to A Salt Water Disposal Utility Well:

Grace Petroleum Corporation
10,700 North Freeway
Suite 620
Houston, Texas 77037
(713) 820-0002
Mike Pavelka

The Grace Petroleum Corporation is applying for approval with the New Mexico Conservation Department to dispose of produced Field Salt Water into the Cline Federal No. 4 located 1653' FWL & 1650' FSL of Sec. 15, T23S, R37E. The salt water will be injected into the Penrose (3616'-3640' and 3564' to 3578'), Queen (3431'-3432'), 7 Rivers (2992'-2952') and Yates 2680', 2782', 2890', 2912') at a maximum rate of 250 barrels per day with a maximum injection pressure of 150 pounds per square inch.

NOTE: Interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days of this ad.

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, George W. Moore

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of _____

One weeks.
Beginning with the issue dated

December 6, 1988
and ending with the issue dated

December 6, 1988

George W. Moore
Publisher.

Sworn and subscribed to before

me this 7 day of

December, 1988
George Murphy
Notary Public.

My Commission expires _____

November 14, 1992
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

RECEIVED

DEC 12 1988

HOUSTON
DISTRICT

48. **LEGAL NOTICE**

December 6, 1988
Advertisement for the General Public of Notice of the Grace Petroleum corporation's intent to convert a producing well to A Salt Water Disposal Utility Well:

Grace Petroleum Corporation
10,700 North Freeway
Suite 620
Houston, Texas
77037
(713) 820-0002
Mike Pavelka

The Grace Petroleum Corporation is applying for approval with the New Mexico Conservation Department to dispose of produced Field Salt Water into the Cline Federal No. 3 located 1653' FWL & 1650' FSL of Sec. 15, T23S, R37E. The salt water will be injected into the Penrose (3616'-3640') and 3564' to 3578', Queen (3431'-3432'), 7 Rivers (2992'-2952') and Yates 2680', 2782', 2890', 2912') at a maximum rate of 250 barrels per day with a maximum injection pressure of 150 pounds per square inch.

NOTE: Interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days of this ad.

Bill Lynn

Eunice

P 430 178 042

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	Texaco, Inc.
Street and No.	P.O. Box 728
P.O., State and ZIP Code	Hobbs, NM 88240
Postage	\$
Certified Fee	2.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	11/25/88

P 430 178 043

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	Conoco Oil Co.
Street and No.	P.O. Box 460
P.O., State and ZIP Code	Hobbs, NM 88240
Postage	\$
Certified Fee	2.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

PS Form 3800, Feb. 1982

P 430 178 044

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	Kaiser-Francis
Street and No.	1240 Market Street
P.O., State and ZIP Code	Dallas, Texas 75205
Postage	\$
Certified Fee	2.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

PS Form 3800, Feb. 1982

P 430 178 045

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	Chevron USA
Street and No.	P.O. Box 670
P.O., State and ZIP Code	Hobbs, NM 88240
Postage	\$
Certified Fee	2.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

P 430 178 047

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	Mr Tom Linberry
Street and No.	P.O. Box 1536
P.O., State and ZIP Code	Midland, TX 79701
Postage	\$
Certified Fee	2.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

PS Form 3800, Feb. 1982

P 430 178 046

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	Joseph P. Driscoll
Street and No.	2706 National Circle
P.O., State and ZIP Code	Garland, TX 75041
Postage	\$
Certified Fee	2.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

PS Form 3800, Feb. 1982

List of Companies & Addresses for Cline Federal No. 4
SWD well.

Texaco, Inc.
P. O. Box 728
Hobbs, NM 88240

Conoco Oil Co.
P. O. Box 460
Hobbs, NM 88240

Kaiser-Francis
1240 Market Street
Rt. 1 Box 208
Odessa, Texas 79765

Chevron, USA
P. O. Box 670
Hobbs, NM 88240

Joseph P. Driscoll
Oil & Gas Investors
2706 National Circle
Garland, Texas 75041

Land Owner

Mr. Tom Linberry
P. O. Box 1536
Midland, Texas 79701

Item VII.

1. The average daily injection will be 145 barrels. The maximum daily rate would be 250 barrels.
2. The system will be closed.
3. The average injection pressure will be 50 psi. The maximum injection pressure will be 150 psi.
4. All reinjected fluid will be produced water from oil and gas production.
5. The injection zones are the Queens, Penrose and 7 Rivers which were previously produced oil and gas.

Item VIII.

Injection Zone:

Lithologic Detail: Gray Dolomite
Geological Name: Penrose
Thickness: 38 feet Top 3531'
Depth: 3564'-3578' and 3616'-3640'

Injection Zone:

Lithologic Detail: Gray Dolomite
Geological Name: Queen Top: 3427
Thickness: 2 feet
Depth: 3431'-3432'

Injection Zone:

Lithologic Detail: Gray Dolomite
Geological Name: 7 Rivers Top: 2915
Thickness: 8 feet
Depth: 2992', 3223', 3261', 3286', 3381',
3382', 2923', 2951'

Injection Zone:

Lithologic Detail: Red Sand and Gray Dolomite
Geological Name: Yates Top: 2638
Thickness: 4 feet
Depth: 2680', 2782', 2890', 2912'

Item IX.

None stimulation is proposed.

Item X.

Log previously submitted.

Item XI.

Water Well and A and B water analysis are attached and noted on enclosed map.

Item XII.

After examining the area in question I can find no evidence to show fault or hydrologic connection between the disposal zone and any underground source of drinking water.

G U311 1545 88.224 10:09:24 DWLMTXDO 5737 88.224 10:09
0000 DWLMTXDO 6469 MIDLAND, TX DISTRICT

WILLIAM JAYCOX/ANDREWS LAB

(DWLMTXDO)(DWLMTXDO)

WATER WELL A

R E C E I V E D

AUG 15 1988

DOWELL SCHLUMBERGER LABORATORY REPORT
ANDREWS DISTRICT LABORATORY

HOUSTON
DISTRICT

API WATER ANALYSIS REPORT

COMPANY: GRACE PETROLEUM CORP.

DATE: 8-10-88

COUNTY AND STATE: ANDREWS, TEXAS

LAB NO.: ANXS88102

SUBMITTED BY: BRENT TRITTIPO

LAB: ANDREWS

SERVICE POINT: ANDREWS

DATE SAMPLED: 8-8-88

LEASE AND WELL: LANGLIE MATTIX

TYPE WATER: FRESH(SUPPLY)

SAMPLE NUMBER: E

FIELD: LANGLIE MATTIX

	MG/L	ME/L
	*****	*****

CATIONS:

SODIUM, NA (CALC.) -----	20	1
CALCIUM, CA -----	70	4
MAGNESIUM, MG -----	30	2
BARIUM, BA -----	-	-
IRON, FE -----	0.3	0

ANIONS:

CHLORIDE, CL -----	160	5
SULFATE, SO4 -----	100	2
CARBONATE, CO3 -----	1	0
BICARBONATE, HCO3 -----	1	0

TOTAL DISSOLVED SOLIDS (CALC.): -- 382 MG/L

OTHER PROPERTIES:

PH -----	8.6
SPECIFIC GRAVITY -----	1.000
TEMPERATURE -----	70 F

WILLIAM JAYCOX
LAB TECHNICIAN
ANDREWS, TEXAS

S DWLMTXDO 5736 88.224 9:47:40 DWLMTXDO 5736 88.224 9:47

0000

WILLIAM JAYCOX/ANDREWS LAB

(DWLMTXDO)(DWLMTXDO)

WATER WELL B

R E C E I V E D

W

AUG 15 1988

DOWELL SCHLUMBERGER LABORATORY REPORT
ANDREWS DISTRICT LABORATORY

HOUSTON
DISTRICT

API WATER ANALYSIS REPORT

COMPANY: GRACE PETROLEUM CORP. DATE: 8-10-88
COUNTY AND STATE: ANDREWS, TEXAS LAB NO.: ANXS98102
SUBMITTED BY: BRENT TRITTIPO LAR: ANDREWS
SERVICE POINT: ANDREWS DATE SAMPLED: 8-8-88

LEASE AND WELL: LANGLIE MATTIX TYPE WATER: FRESH(SUPPLY)

SAMPLE NUMBER: W FIELD: LANGLIE MATTIX

MG/L ME/L
***** *****

CATIONS:

SODIUM, NA (CALC.) -----	20	1
CALCIUM, CA -----	160	8
MAGNESIUM, MG -----	15	1
BARIUM, BA -----	-	-
IRON, FE -----	0.2	0

ANIONS:

CHLORIDE, CL -----	250	7
SULFATE, SO4 -----	150	3
CARBONATE, CO3 -----	0	0
BICARBONATE, HCO3 -----	5	0.1

TOTAL DISSOLVED SOLIDS (CALC.): -- 600 MG/L

OTHER PROPERTIES:

PH -----	7.9
SPECIFIC GRAVITY -----	1.000
TEMPERATURE -----	69 F

WILLIAM JAYCOX
LAB TECHNICIAN
ANDREWS, TEXAS

TEXACO, INC.

State of N.M. "BZ"

OPERATOR

LEASE

WELL NO. 11

1980' FSL & 660' FEL

16

23S

37E

SURFACE LOCATION

SECTION

TOWNSHIP

RANGE

SchematicTubular DataSurface CasingSize 9-5/8" Cemented with 650 sx.

TDC _____ feet determined by _____

Hole size 12 $\frac{1}{4}$ @ 1080'Intermediate Casing

Size _____" Cemented with _____ sx.

TDC _____ feet determined by _____

Hole size _____

Long stringSize 4 $\frac{1}{2}$ " Cemented with 1800 sx.

TDC _____ feet determined by _____

Hole size 8-3/4 @ 3670'Total depth 3670Injection intervalfeet to _____ feet
(perforated or open-hole, indicate which)

DATE DRILLED: 08-12-59 to 08-17-59

COMPLETION: 09-12-59

PERFORATION: 3458' to 3583'

Tubing size _____ lined with _____ set in a _____
(material)

packer at _____ feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____
2. Name of Field or Pool (if applicable) Langlie Mattix
3. Is this a new well drilled for injection? Yes No
If no, for what purpose was the well originally drilled? _____
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (socks of cement or bridge plug(s) used)

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

3

COMPANY TEXACO, INC. NO. 11 FARM STATE OF N. M. "BZ71" POSTED
COUNTY LEA STATE NM MAP
FIELD Tanalis Nattix Depth 3670' ELEV. 3305' DF LAND
LOCATION 1080' EST. 660' EST. Sec. 16, T-23-S, R-37-E CONTRACTOR GEO.
NM 15

T.D. 3670' L P.B. 3650

PAY 3458

IP F/11

I.P. 1/110 BOD 20, 34 ex
6510 6

GOR. _____ **6510**

GRAV. 30.2

FIRST 8-12-59
REPT. 8-17-59
SPUD 9-12-59
COMP. 1000
TOTAL TREATMENT:
ACID / 15,000
FRAC /

8-19-59: # 880' RB.
8-26-59: Y 3015' A.
9-2-59: ID 3670' L. 3650' MORT. 64/3518'-34', 40/3
9-9-59: F/10, Perf: 56/3458'-72', 56', 40/3573'-83', A/100 SF/15,000

GRACE PETROLEUM CORP.

Cline Federal

OPERATOR

LEASE

4 1650' FSL & 1653' FWL 15 23S 37E

WELL NO. SURFACE LOCATION SECTION TOWNSHIP RANGE

SchematicInitial DataSurface CasingSize 8-5/8" " Cemented with 300 sx.TOC Surface feet determined by Cement ReturnsHole size 11"Intermediate CasingSize _____ " Cemented with _____ sx.TOC _____ feet determined by _____Hole size _____Long stringSize 5 $\frac{1}{2}$ " " Cemented with 300 sx.TOC 244 Calculated feet determined by _____Hole size 7-7/8"Total depth 3680Injection interval2992 feet to 3640 feet
(perforated or open-hole, indicate which)

Perforated

1637
176
225Tubing size 2-3/8 lined with _____ set in a
(material)packer at 2900' feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data1. Name of the injection formation Queen, Penrose, and 7 Rivers2. Name of Field or Pool (if applicable) Langlie Mattix3. Is this a new well drilled for injection? Yes NoIf no, for what purpose was the well originally drilled? Produce Oil and Gas4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. T Penrose-3532', T Queen-3427', Top 7 Rivers 2915'

13

COMPANY DELHI-TAYLOR OIL CORP. NO. 4 FARM CLINE FEDERAL
 COUNTY LEA STATE NM ELEV. 3305' DE LAND
 FIELD Langlie Mattix Depth 3700' Penr CONTRACTOR GEO.
 LOCATION 1650' FS, 1653' F'L, Sec. 15, T-23-S, R-37-E

T.D. <u>3680¹ dol.</u>	P.B. <u>3659</u>	REPI. <u>9-23-59</u>
PAY <u>3564</u>		SPUD <u>9-23-59</u>
I.P. <u>5/20¹ BO 24 hrs 12/64" ck</u>		COMP. <u>10-25-59</u>
GOR. <u></u>	GRAV. <u></u>	TOTAL TREATMENT:
	CP <u>1100</u>	ACID / <u></u>
	TP <u>980</u>	FRAC. / <u>30,000</u>

WELL HISTORY	FORMATION TOPS	CASING RECORD
# 3390-3440 rec 50' sh, dolo & shly sd, S30.	Penrose 3531'	8-5/8" @ 601' w/300 sx.
A. # 3510-3558 rec 18' A & dolo	Yates (2670')	5-1/2" @ 3680'w/300 sx.
& shly sd, S30. # 3558-3608 rec 50' sh, dolo & sd.	Queen (3127')	
# 3608-56 rec 18' sd, sh & dolo.	Penrose(3532')	

		PRODUCING INTERVAL
		Perf: 35611-36101
		ELEC. LOG SURVEY / /
		Sig. DPL 100 - 31-100

9-30-59: / 3380' L & A.
10-7-59: TD 3680' dolo. Rng logs.
10-14-59: TD 3680' dolo. P/SF. Perf: 56/3564-78, 96/-40.
10-21-59: TD 3680' dolo. PB ?? F/loa. SF/30,000
000#.
10-28-59: TD 3680' dolo. P3 3659'. Rec LC.
11-4-59: ED 3680' dolo. Hold for comp.

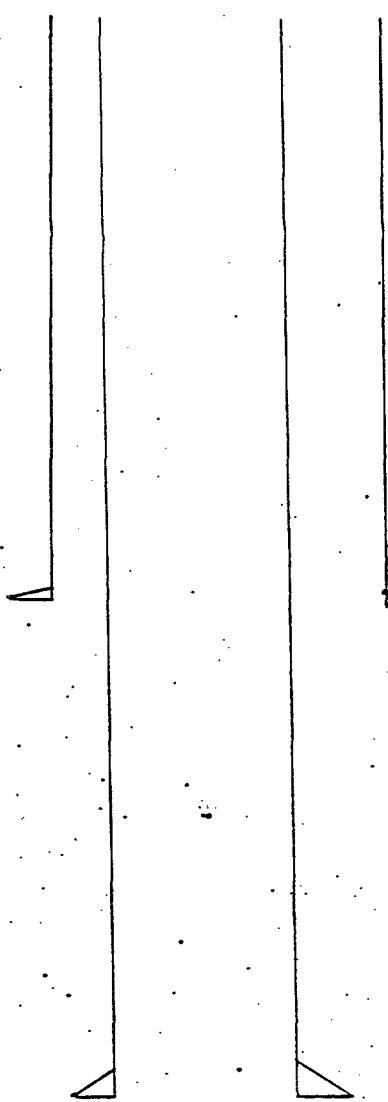
CONTINENTAL OIL CO.

OPERATOR

Cline "A-15" Federal

LEASE

#3	1980' FSL & 60' FWL	15	23S	37E
WELL NO.	DEPTH LOCATION	SECTION	TOWNSHIP	RANGE

SchematicIntubular DataSurface CasingSize 8-5/8" Cemented with 250 sx.TOC feet determined by Hole size 11" @ 372'Intermediate CasingSize " Cemented with sx.TOC feet determined by Hole size Long stringSize 4½" Cemented with 1000 sx.TOC Calculated by Cale. feet determined by Hole size Total depth 7-7/8" @ 3671Injection intervalfeet to feet
(perforated or open-hole, indicate which)DATE DRILLED: 11-23-59COMPLETION: 12-09-59PERFORATION: 3555' - 3634'Tubing size lined with set in a
(material)packer at feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data1. Name of the injection formation 2. Name of Field or Pool (if applicable) Langlie Mattix3. Is this a new well drilled for injection? Yes NoIf no, for what purpose was the well originally drilled? 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) 5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

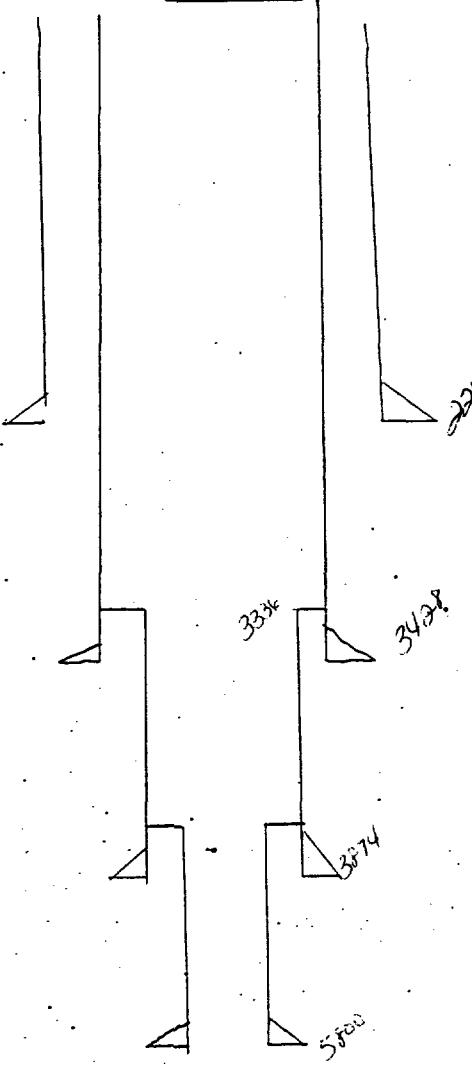
12-2-59: γ 3465' L.
12-9-59: TD 3671' do 10. F/10. Perf: 12/3555-58, 12/3
79, 12/3582-85, 20/3589-94, 12/3609-12, 20/3729-34,
A/1000, 3F/10,000 + 15,000 (3555-3634').

CONOCO

CLINE "A-15"

OPERATOR

LEASE

2
WELL NO.660' FSL & FWL
FOLIAGE LOCATION15
SECTION23S
TOWNSHIP37E
RANGESchematicTabular DataSurface CasingSize 13-3/8" " Cemented with 200 sx.TOC Surface-Cole feet determined by _____Hole size 17½ @ 221'Intermediate CasingSize 9-5/8" " Cemented with 600 sx.TOC 1733 by Cole feet determined by _____Hole size 12½ @ 3428'LinerLong stringSize 7" " Cemented with 400 sx.TOC Cole feet determined by _____Hole size 8½"Total depth 3874'Injection intervalfeet to _____ feet
(perforated or open-hole, indicate which)LINERSIZE 4½" Cemented with 125 sx

TOC Feet determined by _____

HOLE SIZE 6½"TOTAL DEPTH 5800'SPUD: 01-30-69COMPLETION: 3-24-69REENTRY: 6-17-80COMPLETION 7-15-80PERFORATION: 5496'-5763'

Tubing size _____ lined with _____ set in a _____

(material)

feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____
 2. Name of Field or Pool (if applicable) Langlie-Mattix
 3. Is this a new well drilled for injection? Yes No
If no, for what purpose was the well originally drilled? _____
 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (socks of cement or bridge plug(s) used) _____
 5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____
- 4

 Petroleum Information

COUNTY	LMA	FIELD	Langlie-Mattix	STATE	NM
CON	CONOCO, INC.			API	MN 10735
NO	2 LEASE Cline "A-15"			MAP	
	Sec 15, T23S, R37E			CT/ORD	
	660 FSL, 660 FWL of Sec				1-2-10 NM
	3 mi S/Eunice			RESPI	6-17-80 RECM 7-15-80

RCG	WELL CLASS: INIT	DXFIN DQ LSE CODE		
		FORMATION	DATUM	FORMATION
13 3/8-221-200 sx				
9 5/8-3428-600 sx				
7-lnr-3336-3874-400 sx				
4 1/2-lnr-3874-5800-125 sx				
		ID 5800 (BLBR)	PBD 4000	

IP (Seven Rivers-Queen) Perfs 3240-3598 P 32 BOPD + 35 BW.
Pot based on 24 hr test. GOR 1281; gty (NR)

CONTE	OPRSELEV	3308 DF	PBD 4000 WO
-------	----------	---------	-------------

F.R.C. 1-10-81
 OWWO
 (Orig. Dry & Abandoned 2-5-48, OTD 3874; OWWO
 & Temporarily Abandoned 5-5-48, OTD 3874;
 OWDD & Re-comp. 3-24-69 thru (Blinebry) Perfs
 5496-5763, OTD 5800)
 1-5-81 TD 5800; PBD 4000; Complete
 PB to 4000
 Perf (Seven Rivers) @ 3240-42, 3255, 3300, 3350,
 3360
 Acid (3240-3360) 800 gals (15% NE HCL)
 Perf (Queen) 3470-78, 3487, 3495, 3506,
 3524-26, 3536-56, 3574-78, 3592-98 (overall)
 Acid (3470-3598) 4000 gals (15% NE HCL)
 Frac (3240-3598) 30,000 gals + 60,000# sd
 1-10-81 COMPLETION ISSUED

1-2-10 NM
 IC 30-025-70001-81

COUNTY I.E.A	FIELD Blinebry	STATE NM MN 10735, OWDD
OPR	CONTINENTAL OIL CO.	MAP
	2 Cline "A-15"	
	Sec 15, T-23-S, R-37-E	CO-ORD
	660' FSL, 660' FWL of Sec.	
	Re-Spd 1-30-69	CLASS
	Re-Cmp 3-24-69	EL
	FORMATION	DATUM
	FORMATION	DATUM
LOGS	EL	GR
RA	IND	HC
A		

TD 5800'

IP (Blinebry) Perf 5496-5763' P 73 BOPD + 66 BW. Pot based on
24 hr test. GOR NR, Grav NR.

4-14-69

F.R.C. 4-17-69
 PD 5800' (Blinebry)
 (Orig. P&A 2-5-48, OTD 3874', OWWO & Re-Comp
 Temp. Aban. 5-5-48, OTD 3874')
 TD 5800'; COMPLETE
 Sqzd (3534-94') w/100 sx
 Deepened from 3874' to 5800'
 Ran 4 1/2" liner
 Perf @ 5496', 5510', 5526', 5537', 5563', 5568',
 5585', 5604', 5620', 5631', 5649', 5664', 5675',
 5688', 5702', 5720', 5741', 5748', 5763' w/1 SPI
 Acid (5496-5763') 2000 gals
 Frac (5496-5763') 40,000 gals wtr + 60,000# sd
 COMPLETION REPORTED

4-17-69

CONTINENTAL OIL CO.

Cline A-15

OPERATOR

#3 1980' FSL 660' FWL

LEASE

15

23-S

37E

WELL NO.

TOWNSHIP LOCATION

SECTION

TOWNSHIP

RANGE

SchematicTabular DataSurface CasingSize 8-5/8" " Cemented with 250 sx.TDC feet determined by Hole size 11" 372'Intermediate CasingSize " Cemented with sx.TDC feet determined by Hole size Long stringSize 4 1/2" " Cemented with 1000 sx.TDC feet determined by Hole size Total depth 7-7/8" @ 3671'Injection intervalfeet to feet
(perforated or open-hole, indicate which)DATE DRILLED: 03-20-72COMPLETION 04-20-72PERFORATION: 3301'-3634'Tubing size lined with set in a
(material)packer at feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation
2. Name of Field or Pool (if applicable) Langlie Mattix
3. Is this a new well drilled for injection? Yes No
If no, for what purpose was the well originally drilled?
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used)
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

OWWO

STATE NM MN 10734

MAP

COUNTY LIA FIELD Langlie Matrix

OPR CONTINENTAL OIL CO.

3 Cline A-15

Sec 15, T-23-S, R-37-E

CO.ORD

1980' FSL, 660' FWL of Sec

Re-Spd 3-20-72

CLASS

OWDF

3301

Re-Cmp 4-20-72

FORMATION

DATUM

FORMATION

DATUM

CSG & SX . TUBING

8 5/8" at 372' w/250 sx

4 1/2" at 3671' w/1000 sx

LOGS EL GR RA IND MC A

TD 3671'

(Seven Rivers-Queen) Perfs 3301-3634' NO NEW POTENTIAL

F.R.C. 6-24-72; Opr's Elev. 3310' BF

PD 3634' WO (Queen)

(Orig. Continental Oil Co. #3 Cline A-15,

comp 12-9-59 thru (Queen) Perfs 3555-3634',

OTD 3671')

6-19-72

TD 3671; COMPLETE

Perf @ 3301', 3334', 3360', 3402', 3486', 3505',
3516', 3523', 3534', 3538' w/1 SPI

Acid (3301-3538') 2500 gals

Frac (3301-3538') 20,000 gals wtr + 30,000# sd

Ppd 30 BO + 5 BW in 24 hrs (3301-3634')

6-24-72

COMPLETION REPORTED

Continental Oil Co.

OPERATOR

Cline "A-15" Federal

CLASS

5
WELL NO. 1980' FNL & FWL

15
SECTION

T 23-S.
TOWNSHIP

R-37E
WATER

Schematic

Initial Data

Surface Casing

- Size 7-5/8 " Cemented with 200 sx.
TDC feet determined by
Hole size 9-7/8" @ 366'

Intermediate Casing

Size " Cemented with sx.
TDC feet determined by
Hole size

Long string

Size 4½ " Cemented with 1390 sx.
TDC feet determined by
Hole size 6½
Total depth 3700'

Injection interval

 feet to feet
(perforated or open-hole, indicate which)

DATE DRILLED: 3/16/60 to 3/23/60

COMPLETION: 4/10/60

PERFORATIONS: 3579' to 3691'

Tubing size lined with set in a
 (material)

 packer at feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation
2. Name of Field or Pool (if applicable) Langlie Mattix
3. Is this a new well drilled for injection? Yes No
If no, for what purpose was the well originally drilled?
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used)
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

COMPANY	CONTINENTAL OIL CO.	NO.	5	FARM	CLINE "A-15" FEDERAL	MAP POSTED
COUNTY	LEA	STATE	NM	ELEV.	3303'	LAND
FIELD	Lanlie Mattix	Depth	3750'	CONTRACTOR		GEO.
LOCATION	1980' T.M. & F.T., Sec. 15, T2 ³ -S, R-37-E					E NM-13

T.D.	3700' sd.	P.B.	FIRST REPT.	3-22-60
PAY	3579'		SPUD	3-16-60
I.P.	P/57 BO + 36 BW 24 hrs		COMP.	4-10-60
GOR.	GRAV.	36	TOTAL TREATMENT:	
	CP		ACID /	
	TP		FRAC. /	10,000

WELL HISTORY	FORMATION TOPS	CASING RECORD
# 3550-3600 rec 50' bg 9' sd	Anh. (1124')	7 5/8" @ 3661' w/200 sx.
good odor 3' dolo, bldg oil 25'	Salt (1222')	4-1/2" @ 3700' w/1390 sx.
dnse dolo N/S 8' shy sd & dolo	B. Salt (2523')	
N/S. # 3650-3700 rec 50' bg 19'	Yates (2668')	
sd good stn odor & fluor 31'	S. R. (2936')	
dnse dolo bldg oil.	Queen (3449')	
	Penr. (3573')	
		PRODUCING INTERVAL
		Perf: 3579'-3691'
		ELEC. LOG SURVEY / /

3-23-60: Ø 3245' A & L.

3-30-60: TD 3700' dolo. P/Acid. Pf: 12/3579-82, 20/3596-
3601, 20/3603-08, 20/3651-56, 24/3663-69, 16/3687-91.

4-6-60: TD 3700' dolol Swbg/L0. SF/10,000 plus 20,000
(3579-91).

CONTINENTAL OIL CO.

Cline Federal "A-15"

OPERATOR

LEASE

4 330' FSL & 2310' FEL
WELL NO. FORTAGE LOCATION

15 SECTION

23S TOWNSHIP

37E RANGE

SchematicTabular DataSurface CasingSize 8-5/8" Cemented with 200 sx.

TOC _____ feet determined by _____

Hole size 11" @ 361'Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long stringSize 4 1/2" Cemented with 1400 sx.

TOC _____ feet determined by _____

Hole size 7-7/8"Total depth 3750'Injection intervalfeet to _____ feet
(perforated or open-hole, indicate which)DATE DRILLED: 02-17-60.COMPLETION: 05-31-60PERFORATION: 2944'-3366'BRIDGE PLUG @ 3410'PERFORATION: 3598'-3686'Tubing size _____ lined with _____ set in a
(material)_____
feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Langlie-Mattix3. Is this a new well drilled for injection? Yes No

If no, for what purpose was the well originally drilled? _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals
and give plugging detail (sacks of cement or bridge plug(s) used) _____5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in
this area. _____

COUNTRY	Lea	FIELD	Jangle-Mattix	STATE	N.M.	NO.			
OPR	Continental Oil Co.					MAT			
NO.	4	LINE	Cline-Federal "A-15"						
SEC.	15	T.	23S	R.	37E	SUR.			
LOC.	330' fr S Line & 2310' fr E Line of Sec.					CO-ORO			
INT.	ML	FROM	P6A	CLASS					
SPUD	2-17-60	COMP.	5-31-62	FORMATION	DATUM	FORMATION			
LOG:									
ANHY	1104								
SALT	1180								
SH	2534								
YATES	2679								
7-R	2958								
QUEEN	3475								
PENR	3599								
TD	3750'	LS.				3552'			
PROD INT.	(DAILY RATE)	BSPW	GH	GOR	GTY	C.P.	T.P.	HNR	TEST
PLUGGED & ABANDONED									

TD 3750' ls., WOO.
 Perf 32/3705-13', 32/3724-30', tr. 1500 Ac., swbd dry. Perf 40/3598-3608', 32/3620-28', 32/3636-44', 72/3668-86', tr. 1000 Ac., SF 16,000 gals, swbd load. Re-Perf 18/3598-3608', 16/3620-28', 16/3636-44', 36/3668-86', tr. 1000 Ac., SF 16,000 gals, swbd load. Re-Perf 18/3598-3608', 16/3620-28', 16/3636-44', 36/3668-86', tr. 1000 Ac., SF 10,000 gals.

5-31-60 TD 3750' ls., WOO.
 6-7-60 TD 3750' ls., WOO.
 6-14-60 TD 3750' ls., WOO - INACTIVE
 9-19-60 TD 3750' ls., PB 3552', swbg load.
 Perf 16/3472-80', 6/3489-3502', 16/3520-28', 6/3532-35', 8/3538-42', tr. 500 MA, SF 10,000 + 20,000# sd., swbd 52 BLO/28 hrs. (-30).

Continental Oil Co., #4 Cline-Federal "A-15"-Sec. 15-23S-37E

9-26-60	TD 3750' ls., PB 3552', SDO. Swbd 4 BLO/2 hrs, swbd dry.
10-3-60	TD 3750' ls., PB 3552', SDO.
10-10-60	TD 3750' ls., PB 3552', SDO.
10-17-60	TD 3750' ls., PB 3552', SDO.
10-24-60	TD 3750' ls., PB 3552', SDO.
10-31-60	TD 3750' ls., PB 3552', SDO - INACTIVE
3-20-61	TD 3750' ls., PB 3552', SDO.
3-27-61	TD 3750' ls., PB 3552', SDO.
4-3-61	TD 3750' ls., PB 3552', SDO.
4-10-61	TD 3750' ls., PB 3552', SDO.
4-17-61	TD 3750' ls., PB 3552', SDO.
4-24-61	TD 3750' ls., PB 3552', SDO.
5-1-61	TD 3750' ls., PB 3552', SDO.
5-8-61	TD 3750' ls., PB 3552', SDO.
5-15-61	TD 3750', PB 3552', SDO.

5-22-61 TD 3750' ls., PB 3552', SDO.
 5-29-61 TD 3750' ls., PB 3552', SDO.
 6-5-61 TD 3750' ls., PB 3552', SDO.
 6-12-61 TD 3750' ls., PB 3552', SDO.
 6-19-61 TD 3750' ls., PB 3552', SDO.
 6-26-61 TD 3750' ls., PB 3552', SDO - INACTIVE
 9-11-61 TD 3750' ls., PB 3552', prep to check sand-fill.
 Set BP @ 3410', perf 20/2944-54', 8/2958-62',
 18/3026-35', 20/3056-66', 10/3118-23', 12/3128-
 34', 10/3210-15', 8/3223-27', 8/3254-58', 24/
 3264-76', 16/3303-10', 4/3320-22', 16/3330-38',
 10/3361-66', tr. perfs 2944-3366' w/2000 Ac., SF
 30,000 + 60,000# sd. (6 stages).
 Swbd & Fld. 195 BLO/24', swbd dry.
 TD 3750' ls., PB 3552', RU Pump.
 Swbd 4 BLO/2 hrs.

Continental Oil Co., #4 Cline-Federal "A-15"-Sec. 15-23S-37E

9-25-61 TD 3750' ls., PB 3552', tstg. on pump.
 Ppd. 2 BLO + 4 BW/24 hrs (-255).
 10-2-61 TD 3750' ls., PB 3552', ppg. load. (-237).
 10-9-61 TD 3750' ls., PB 3552', ppg. load, no gauge.
 10-16-61 TD 3750' ls., PB 3552', ppg. load.
 10-23-61 TD 3750' ls., PB 3552', ppg. load.
 10-30-61 TD 3750' ls., PB 3552', ppg. load.
 11-6-61 TD 3750' ls., PB 3552', ppg. load.
 11-13-61 TD 3750' ls., PB 3552', ppg. load.
 (Last posting until load oil recovered).
 2-26-62 TD 3750' ls., PB 3552', ppg. load - INACTIVE
 6-4-62 TD 3750' ls., PB 3552', PLUGGED & ABANDONED.

JOHN C. HILL

OPERATOR

La Munyon

LEASE

#1 WELL NO.	1980' FWL & 660' FNC FORTAGE LOCATION	22 SECTION	23S TOWNSHIP	37E RANGE
----------------	--	---------------	-----------------	--------------

SchematicInboring DataSurface Casing

Size 8-5/8" Cemented with 175 s.x.
 TDC _____ feet determined by _____
 Hole size 11 @ 286'

Intermediate Casing

Size _____" Cemented with _____ s.x.
 TDC _____ feet determined by _____
 Hole size _____

Long string

Size 5½" Cemented with 250 s.x.
 TDC _____ feet determined by _____
 Hole size _____
 Total depth 7-7/8 @ 3750

Injection interval

*PC@
2413
D1 Calc*
DATE DRILLED: 02-05-59 feet to _____ feet
(perforated or open-hole, indicate which)

COMPLETION: 04-01-59
 PERFORATION: 3582'-96'

Tubing size _____ lined with _____ set in a _____
 (material)
 _____ pocket at _____ feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____
2. Name of Field or Pool (if applicable) Langlie Mattix
3. Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? _____
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

(1)

COMPANY	JOHN H. HILL	NO.	1	FARM	LAS CRUCES TAYLOR	MAP POSTED
COUNTY	LEA	STATE	NM	ELEV.	3200' DT	LAND
FIELD	Jalmat	Depth	3750'	CONTRACTOR		GEO.
LOCATION	2201 EMT, 1650' EMT, Sec. 15, T-23-S, R-37-E					

T.D.	3737' L	P.B.	3721	FIRST REPT.	3-1-50
PAY	3574			SPUD	2-27-50
I.P.	F/79 BO 24 hrs 1/8" ck			COMP.	4-1-59
GOR.	GRAV. 36	CP	625	TOTAL TREATMENT:	
		TP	325	ACID /	500
				FRAC. /	10,000

CASING RECORD	FORMATION TOPS	WELL HISTORY
8 5/8" - 293' w/175 sx.	Penrose (3500')	4 3478-3511 rec 33' A, dol w/SO
5-1/2" @ 7327' w/225 sx.		4 3511-3543 rec 32' dolo & sd,
3737'		w/SO. 4 3543-80 rec 37' dol & s
		w/SO. 4 3580-3612 rec 32' dol &
		sd w/SO. 4 3612-65 rec 53' dol
		sd w/SO.

PRODUCING INTERVAL		
Perf: 3574'-98'		
ELEC. LOG SURVEY	/	/

4

3-4-59: P 2495¹ A.
3-11-59: TD 3665¹ L. P/Q.
3-18-59: TD 3727¹ L. WOC.
3-25-59: SI.

J.C. MAN, JR. & JOHN H. HILL
OPERATOR

Munyon Federal

LEASE

2 330' FNL & 990' FWL 22 23S 37E
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

Tubular Data

Surface Casing

Size 10-3/4" Cemented with 225 sx.

TOC _____ feet determined by _____

Hole size 12 $\frac{1}{2}$

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5 $\frac{1}{2}$ " Cemented with 300 sx.

TOC _____ feet determined by _____

Hole size 8-3/4

Total depth 3665

Injection interval

feet to _____ feet
(perforated or open-hole, indicate which)

DATE DRILLED: 05-14-59

COMPLETION: 06-04-59

PERFORATIONS: 3570' - 3594'

Tubing size _____ lined with _____ set in a
(material)

feet
(brand and model) packer at _____

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Langlie Mattix

3. Is this a new well drilled for injection? Yes No

If no, for what purpose was the well originally drilled? _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals
and give plugging detail (sacks of cement or bridge plug(s) used) _____

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in
this area. _____

(7)

COMPANY	J. C. MAN, JR. & JOHN H. HILL	NO.	2	FARM	MUNYON FEDERAL	MAP POSTED
COUNTY	LEA	STATE	NM	ELEV.	3307' DF	LAND
FIELD	Langlie Mattix	Depth	3750'	CONTRACTOR		GEO.
LOCATION	230' FNL, 990' FWL, Sec. 22, T-23-S, R-37-E					E

T.D.	3665'	P.B.		FIRST REPT.	1-20-59
PAY	3570			SPUD	5-14-59
I.P.	F/F1 TO 24 hrs 9/61" c/s			COMP.	4-1-50
GOR.	GRAV. 35	CP	600	TOTAL TREATMENT:	
		TP	100	ACID /	250
				FRAC. /	10,000

CASING RECORD	FORMATION TOPS	WELL HISTORY
10 3/4" @ 306' w/225 sx.	neen (33111)	
5-1/2" @ 3665' w/300 sx.	Penrose (31501) Grayburg (36211)	

PRODUCING INTERVAL		
Porc: 3570'-3591'		

ELEC. LOG SURVEY	/	/

5-20-59: ♀ 2848¹ L.
5-27-59: TD 3665¹ L. MCC
6-10-59: TD 3665¹ L, Perf: 16/35¹⁰¹⁻⁰¹, 28/35⁸⁷⁻⁰¹
Treated w/250 ml's MA, SF/10,000 30,000 rec LC

GULF OIL CORP.

C.E. LaMunyon

OPERATOR

LEASE

44

660' FNL & FWL

22

T-23-S

WELL NO.

FURTAGE LOCATION

SECTION

TOWNSHIP

R-37E

RANGE

Schematic

Tubular Data

Surface Casing

- Size 8-5/8 " Cemented with 350 sx.

TOC _____ feet determined by _____

Hole size 11' @ 903

Intermediate Casing

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5 1/2 " Cemented with 440 sx.

TOC _____ feet determined by _____

Hole size 7-7/8

Total depth 5900

Injection interval

feet to _____ feet
(perforated or open-hole, indicate which)

DATE DRILLED: 05-20-69

COMPLETION: 06-13-69

PERFORATION: 5390' - 5812'

Tubing size _____ lined with _____ set in a
(material)

packer at _____ feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Teague

3. Is this a new well drilled for injection? Yes No

If no, for what purpose was the well originally drilled? _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

COUNTY	LEA	FIELD	Teague	STATE	NM 30-025-23133
OPR	GULF OIL CORP.			MAP	
	44 LaMunyon, C. E.				
	Sec 22, T-23-S, R-37-E				
	660' FNL, 660' FWL of Sec.			CO-ORD	
	Spd 5-20-69				
	Cmp 6-13-69			CLASS	EL 3300 ²
	FORMATION	DATUM	FORMATION	DATUM	
CSO & SX. TUBING 8 5/8" at 903' w/350 sx 5 1/2" at 5900' w/440 sx					
LOGS: EL GR RA IND HC A			TD 5900'		

IP (Blinebry) Perfs 5390-5812' F 394 BOPD + 201 BW. Pot based on
24 hr test thru 1/2" chk, TP 290#

Sp. 5-20-69
F.R. 5-6-69
PD 5900' (Blinebry)
Contractor - Cactus
 5-26-69 Drig. 3520' 1m
 6-2-69 Drig. 5550' 1m
 6-9-69 TD 5900'; Prep perf
 6-16-69 TD 5900'; WO Pot
 Perf 5390-92', 5440-42', 5487-89', 5650-52',
 5708-10', 5756-58', 5810-12' w/4 SPF
 Acid (5390-5812') 7000 gals
 Frac (5390-5812') 60,000 gals gel wtr + 9000# sd
 Flwd 394 BO + 201 BLW in 24 hrs, thru 1/2" chk,
 TP 290#
 6-23-69 TD 5900'; COMPLETE
 6-26-69 COMPLETION REPORTED

COQUINA OIL CORP.

Texaco-State

OPERATOR

LEASE

WELL NO. 1

330' FSL & 660' FEL
TOURAGE LOCATION

SECTION 16

TOWNSHIP 23S

RANGE 37E

Schematic

Inbular Data

Surface Casing

Size 8-5/8" Cemented with 500 sx.

TDC _____ feet determined by _____

Hole size 11" @ 989'

Intermediate Casing

Size _____" Cemented with _____ sx.

TDC _____ feet determined by _____

Hole size _____

Long string

Size 5½" Cemented with 275 sx.

TDC _____ feet determined by _____

Hole size 7-7/8"

Total depth 5890'

Injection interval

feet to _____ feet
(perforated or open-hole, indicate which)

DATE DRILLED: 10-20-70

COMPLETION: 11-15-70

PERFORATION: 5376' to 5856'

Tubing size _____ lined with _____ set in a _____
(material)

feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) Teague

3. Is this a new well drilled for injection? Yes No

If no, for what purpose was the well originally drilled? _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals
and give plugging detail (sacks of cement or bridge plug(s) used) _____

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in
this area. _____

COUNTY	LEA	FIELD	Teague	STATE NM	30-025-2360
OPR	COQUINA OIL CORP.			MAP	
1	Texaco - State				
Sec 16, T-23-S, R-37-E				CO-ORD	
330' FSL, 660' FEL of Sec					
Spd 10-20-70		CLASS	EL		
Cmp 11-15-70		FORMATION	DATUM	FORMATION	DATUM
csd, sx - TUBING 8 5/8" at 989' w/500 sx 5 1/2" at 5890' w/275 sx					
LOGS EL GR RA IND HC A					
				TD 5890'; PBD 5884'	

IP (Blinebry) Perfs 5367-5856' F 271 BOPD. Pot based on 18 hr test thru 26/64" chk. GOR 1462; Grav 38; CP 1030#; TP 180-280#.

F.R. 10-27-70; Opr's Elev. 3299' GL, 3311' KB
 PD 5900' RT (Blinebry)
 Contractor - Leatherwood
 AMEND OPERATOR, Formerly reported as Way & Mills.
 12-3-70 Drlg. 3892'
 10-28-70 Drlg. 5445' 1m
 11-2-70 TD 5890'; PBD 5884'; WO Potential
 11-10-70 Perf 5367-69', 5384-88', 5416-20', 5438-40',
 5451-53', 5475-77', 5500-02', 5517-19',
 5540-42', 5556-60', 5630-34', 5654-56',
 5674-78', 5704-08', 5749-51', 5767-69',
 5792-94', 5812-14', 5836-38', 5847-49',
 5852-56' w/2 SPF
 Acid (5367-5560') 1750 gals

COQUINA OIL CORP. 1 Texaco - State Page #2

11-10-70 Continued
 Frac (5367-5560') 40,000 gals wtr + 60,000# sd
 Acid (5630-5856') 1750 gals
 11-30-70 Frac (5630-5856') 40,000 gals wtr + 60,000# sd
 TD 5890'; PBD 5884'; COMPLETE
 LOG TOPS: Anhydrite 1035', Yates 2595',
 Queen 3295', San Andres 3868', Glorieta
 4990', Blinebry 5330'
 12-3-70 COMPLETION REPORTED

TEXACO, INC.

OPERATOR

State of N.M. "BZ"

LLASL

10

660' FSL & FEL

16

23S

37E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

SchematicTabular DataSurface Casing

Size 9-5/8" Cemented with 600 sx.
 TDC _____ feet determined by _____
 Hole size 12 $\frac{1}{4}$ @ 1075'

Intermediate Casing

Size _____" Cemented with _____ sx.
 TDC _____ feet determined by _____
 Hole size _____

Long string

Size 4 $\frac{1}{2}$ " Cemented with 1600 sx.
 TDC _____ feet determined by _____
 Hole size 8-3/4
 Total depth 3655'

Injection interval

feet to _____ feet
 (perforated or open-hole, indicate which)

DATE DRILLED: 10-06-59

COMPLETION: 10-27-59

PERFORATION: 3502' - 3566'

Tubing size _____ lined with _____ set in a
 (material)

packer at _____ feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____
2. Name of Field or Pool (if applicable) Langlie Mattix
3. Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? _____
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (socks of cement or bridge plug(s) used)

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

4

COMPANY TEXACO, INC. **NO.** 10 **FARM** STATE OF N. M. "BZ" **POSTED MAP**
COUNTY LEA **STATE** NM **ELEV.** 3312' DF **LAND**
FIELD Langlie Mattix **Depth** 3700' Penr. **CONTRACTOR** **GEO.** E
LOCATION 660' FSL & FEL, Sec. 16, T-23-S, R-37-E

T.D. 3655' P.B. 3650
 PAY 3502
 I.P. 5/110 BO 22/61" ok
 GOR. 5150 GRAV. 38.2 CP 575 TP 475
 REPT. 10-7-59
 SPUD 10-6-59
 COMP. 10-27-59
 TOTAL TREATMENT:
 ACID / 800
 FRAC / 12,000

10-14-59: # 3471 L.
10-21-29: TD 3655, L. PB 3650, MO 44t
10-28-59: Perf: 72/3502, 100, 3532t-141, 20/35561-
661, W/800 A, SF/12,000 SRF/81.9 PILO 72 hrs 18/61" ok;
TP: 450#, CP: 575#, rec LO.

CONTINENTAL OIL CO.
OPERATOR

Cline
LEASE

2-A-15 660' FS & WL 15 23S 37E
WELL NO. SURFACE LOCATION SECTION TOWNSHIP RANGE

Schematic

Tubular Data

Surface Casing

- Size 13-3/8" Cemented with 200 sx.

TDC feet determined by

Hole size 17 $\frac{1}{2}$ @ 230

Intermediate Casing

Size " Cemented with sx.

TDC feet determined by

Hole size

Long string

Size 9-5/8" Cemented with 600 sx.

TDC feet determined by

Hole size

Total depth 12 $\frac{1}{4}$ @ 3409

Injection interval

 feet to feet
(perforated or open-hole, indicate which)

DATE DRILLED: 12-29-47

COMPLETION: 02-05-48

PERFORATION: None

Tubing size lined with set in a
(material)

packer at feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation

2. Name of Field or Pool (if applicable) Skelly (Penrose)

3. Is this a new well drilled for injection? Yes No

If no, for what purpose was the well originally drilled?

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals
and give plugging detail (socks of cement or bridge plug(s) used)

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in
this area.

//

COMPANY	CONTINENTAL	NO.	2-A-15 FARM	CLINE	MAP POSTED
COUNTY	TEA (PENROST SKINNY)	STATE	NEW MEXICO	ELEV.	3308'
LOCATION	60' FS&WL of Sec. 15. 23S. 37E. 3400' Test, Grayburg.	LAND		GEO.	180
PAY	OIL STRING OR PROD. PERF.	FIRST REPT.	12/30/47		
T.D.	3874' Lime.	PLUG BACK		SPUD.	12/29/47
I.P.	Temporarily Abandoned			COMP.	2/5/48
CASING - PERFORATIONS		DEPTH -	FORMATION AND CONTENT	- TESTS:	DST., SHOT, OR ACIDIZED
13 3/8" 230/200		SO 3825-35, SO 3680-85.			
9 5/8" 3409/600		Swbd NS.			
ELEC. LOG SURVEY		PA	0'-3527'		

SOURCE	T. Rate 2590' (Samples)	FORMATIONS
ACTUAL		
SUB-SEA		
ACTUAL		
SUB-SEA		
ACTUAL		
SUB-SEA		
ELEVATION		
PROD. PERF.		
CASING		
T.D.		
LOG		

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, George W. Moore

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of _____

One _____ weeks.
Beginning with the issue dated

December 6, 1988
and ending with the issue dated

December 6, 1988

George W. Moore
Publisher.

Sworn and subscribed to before

me this 7 day of

December, 1988
Vera Murphy
Notary Public.

My Commission expires _____

November 14, 1992
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE
December 6, 1988

Advertisement for the General Public of Notice of the Grace Petroleum corporation's intent to convert a producing well to A Salt Water Disposal Utility Well:

Grace Petroleum Corporation
10,700 North Freeway
Suite 620 Houston, Texas
77037 (713) 820-0002
Mike Pavelka

The Grace Petroleum Corporation is applying for approval with the New Mexico Conservation Department to dispose of produced Field Salt Water into the Cline Federal No. 4 located 1653' FWL & 1650' FSL of Sec. 15, T23S, R37E. The salt water will be injected into the Penobe (3616'-3640' and 3564' to 3578'), Queen (3431'-3432'), 7 Rivers (2992'-2952') and Yates 2680', 2782', 2890', 2912') at a maximum rate of 250 barrels per day with a maximum injection pressure of 150 pounds per square inch.

NOTE: Interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days of this ad.

Bill Lynn
Eunice



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

1-9-89

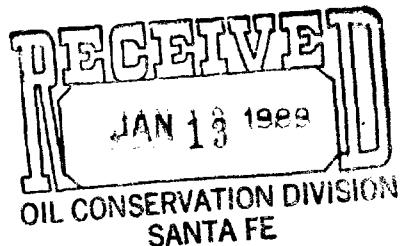
GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC _____
DHC _____
NSL _____
NSP _____
SWD X
WFX _____
PMX _____



Gentlemen:

I have examined the application for the:

Grace Pet. Corp. Cline Federal #4-K 15-23-37
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed