

LEGEND

- OIL WELL
- + P&A WELL
- ✓ TA OR SHUT-IN OIL
- * GAS WELL
- + P&A GAS WELL
- ✓ TA OR SHUT-IN GAS
- + D&A WELL
- ✓ INJECTION WELL
- ▽ PROPOSED INJECTION WELL
- { 1/2 MILE RADIUS OF REVIEW AROUND ALL PROPOSED INJECTORS (INCLUSIVE)
- PROPOSED UNIT BOUNDARY

AMERADA HESS CORPORATION

NORTH MONUMENT GRAYBURG / SAN ANDRES UNIT
Lea County, New Mexico

AREA OF REVIEW

NORTH MONUMENT GRAYBURG SAN ANDRES UNIT

ATTACHMENT VI TO FORM C-108
APPLICATION FOR AUTHORIZATION
TO INJECT WATER

WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

UNIT AREA PRODUCERS

PROPOSED NMG/SAU#		WELL						OPERATOR		STATUS	
BLOCK	WELL #	LEASE NAME	NO	API NUMBER	UNIT	SEC	T	R			
4	4	MONSTATE	1	3002503999	P	13	19S	36E	TEXACO INC.	ACTIVE	GS
		WM WEIR	2	3002504042	N	23	19S	36E	TEXACO INC.	ACTIVE	QN
4	10	GRAHAM STATE NCT C	1	3002504043	J	24	19S	36E	CHEVRON USA INC.	ACTIVE	QN
4	2	GRAHAM STATE NCT C	2	3002504044	B	24	19S	36E	CHEVRON USA INC.	ACTIVE	GS
4	24	STATE C	2Y	3002504045	H	24	19S	36E	SHELL WESTERN	ACTIVE	GS
4	13	J L BARR	1	3002504046	M	24	19S	36E	ORYX ENERGY	ACTIVE	GS
4	16	NEW MEXICO F STATE	2	3002504049	P	24	19S	36E	TEXACO INC.	ACTIVE	GS
4	14	NEW MEXICO J STATE	2	3002504051	N	24	19S	36E	TEXACO INC.	ACTIVE	GS
9	14	STATE T	1	3002504053	N	25	19S	36E	AMERADA HESS	ACTIVE	GS
9	6	STATE T	3	3002504055	F	25	19S	36E	AMERADA HESS	ACTIVE	QN
9	12	W A WEIR A	1	3002504057	L	25	19S	36E	AMERADA HESS	ACTIVE	GS
9	2	GRAHAM STATE NCT C	5	3002504058	B	25	19S	36E	CHEVRON USA INC.	ACTIVE	GS
9	10	GRAHAM STATE NCT C	8	3002504061	J	25	19S	36E	CHEVRON USA INC.	ACT DUAL	GS QN
9	16	LOLA MARTIN	2	3002504063	P	25	19S	36E	CHEVRON USA INC.	ACTIVE	GS
9	8	NEW MEXICO STATE	2	3002504066	H	25	19S	36E	ORYX ENERGY	ACTIVE	GS
9	5	WM WEIR	1	3002504067	E	25	19S	36E	TEXACO INC.	ACT DUAL	GS QN
9	4	WM WEIR	3	3002504068	D	25	19S	36E	TEXACO INC.	ACTIVE	GS
8	6	W A WEIR B	2	3002504071	F	26	19S	36E	AMERADA HESS	ACTIVE	GS
		STATE A 26	1	3002504072	M	26	19S	36E	CONOCO INC.	ACTIVE	QN
8	10	W A WEIR NCT B	1	3002504077	J	26	19S	36E	CHEVRON USA INC.	TA	GS
8	14	MCGRAIL STATE	1	3002504078	N	26	19S	36E	MARATHON	ACTIVE	QN
8	11	MCGRAIL STATE	2	3002504079	K	26	19S	36E	MARATHON	ACTIVE	GS
8	8	WM WEIR	4	3002504080	H	26	19S	36E	TEXACO INC.	TA	GS
		M E GAITHER	1	3002504101	I	34	19S	36E	AMERADA HESS	ACTIVE	QN
13	17	J W SMITH	1	3002504104	H	34	19S	36E	CHEVRON USA INC.	TA	GS
		J W SMITH	2	3002504105	A	34	19S	36E	CHEVRON USA INC.	TA	GS
4	18	FOSTER	1	3002504112	P	34	19S	36E	SHELL WESTERN	ACTIVE	GS
		FOSTER	2	3002504113	O	34	19S	36E	SHELL WESTERN	ACTIVE	QN
13	12	W A WEIR	3	3002504118	L	35	19S	36E	AMERADA HESS	ACTIVE	GS
13	6	W A WEIR	4	3002504119	F	35	19S	36E	AMERADA HESS	ACTIVE	QN
13	4	W A WEIR	8	3002504122	D	35	19S	36E	AMERADA HESS	ACTIVE	GS
13	14	SELBY MAVEETY	1	3002504124	N	35	19S	36E	ARCO OIL & GAS	ACTIVE	GS
13	16	STATE A	1	3002504127	P	35	19S	36E	SHELL WESTERN	ACTIVE	GS
19	4	STATE D	1	3002504139	D	1	20S	36E	AMERADA HESS	ACTIVE	GS
19	6	STATE D	3	3002504141	F	1	20S	36E	AMERADA HESS	TA	QN
19	3	STATE D	4	3002504142	C	1	20S	36E	AMERADA HESS	ACTIVE	GS
19	13	NEW MEXICO E STATE NCT 1	1	3002504151	M	1	20S	36E	TEXACO INC.	ACTIVE	GS
19	14	NEW MEXICO E STATE NCT 1	2	3002504152	N	1	20S	36E	TEXACO INC.	ACTIVE	QN
19	12	NEW MEXICO E STATE NCT 1	3	3002504153	L	1	20S	36E	TEXACO INC.	ACTIVE	GS
19	11	NEW MEXICO E STATE NCT 1	4	3002504154	K	1	20S	36E	TEXACO INC.	ACTIVE	GS
18	10	STATE J	2	3002504157	J	2	20S	36E	AMERADA HESS	ACTIVE	GS
18	6	STATE M	1	3002504159	F	2	20S	36E	AMERADA HESS	ACTIVE	GS

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PROPOSED NMG/SAU#		WELL						OPERATOR		STATUS	
BLOCK	WELL #	LEASE NAME	NO	API NUMBER	UNIT	SEC	T	R			
18	14	STATE S	1	3002504160	N	2	20S	36E	AMERADA HESS	ACTIVE	GS
18	4	W A WEIR	2	3002504162	D	2	20S	36E	AMERADA HESS	TA	GS
18	16	GRAHAM STATE NCT B	1	3002504163	P	2	20S	36E	CHEVRON USA INC.	ACTIVE	GS
18	2	STATE A	2	3002504166	B	2	20S	36E	MOBIL TX & NM	TA	GS
18	8	STATE A	3	3002504167	H	2	20S	36E	MOBIL TX & NM	ACTIVE	GS
18	12	STATE A	1	3002504170	L	2	20S	36E	DURHAM INC.	ACTIVE	GS
18	18	REED A 3	2	3002504173	H	3	20S	36E	CONOCO INC.	ACTIVE	QN
18	20	REED A 3	4	3002504176	P	3	20S	36E	CONOCO INC.	ACTIVE	QN
1	16	C H KYTE	1	3002505570	P	7	19S	37E	CHEVRON USA INC.	ACTIVE	GS
1	10	STATE KV 7	1	3002505573	J	7	19S	37E	CONOCO INC.	TA	GS
1	14	KYTE	1	3002505574	N	7	19S	37E	AMERADA HESS	ACTIVE	GS
1	12	ELBERT SHIPP NCT B	1	3002505577	L	8	19S	37E	CHEVRON USA INC.	ACTIVE	GS
		ELBERT SHIPP NCT B	2	3002505578	E	8	19S	37E	CHEVRON USA INC.	ACTIVE	QN
3	14	STATE A 17	2	3002505611	N	17	19S	37E	CONOCO INC.	TA	GS
3	12	STATE A 17	3	3002505612	L	17	19S	37E	CONOCO INC.	TA	GS
3	7	STATE A 17	5	3002505614	G	17	19S	37E	CONOCO INC.	TA	GS
3	2	STATE A 17	6	3002505615	B	17	19S	37E	CONOCO INC.	TA	GS
3	10	GRAHAM STATE NCT G	2	3002505617	J	17	19S	37E	CHEVRON USA INC.	ACTIVE	GS
3	16	GRAHAM STATE NCT G	3	3002505618	P	17	19S	37E	CHEVRON USA INC.	ACTIVE	GS
3	6	STATE J	3	3002505621	F	17	19S	37E	TEXACO INC.	ACTIVE	GS
3	3	STATE J	4	3002505622	C	17	19S	37E	TEXACO INC.	TA	GS
2	12	STATE G	2	3002505624	L	18	19S	37E	AMERADA HESS	ACTIVE	GS
2	8	F W KUTTER NCT C	1	3002505625	H	18	19S	37E	CHEVRON USA INC.	ACTIVE	GS
2	6	F W KUTTER NCT C	3	3002505627	F	18	19S	37E	CHEVRON USA INC.	ACTIVE	GS
2	2	B M KEOHANE B	1	3002505631	B	18	19S	37E	TEXACO INC.	ACTIVE	GS
2	14	C J SAUNDERS FEDERAL	1	3002505632	N	18	19S	37E	TEXACO INC.	ACTIVE	GS
2	15	C J SAUNDERS FEDERAL	2	3002505634	O	18	19S	37E	TEXACO INC.	ACTIVE	GS
2	10	C J SAUNDERS FEDERAL	3	3002505635	J	18	19S	37E	TEXACO INC.	ACTIVE	GS
2	16	NEW MEXICO K STATE	1	3002505637	P	18	19S	37E	TEXACO INC.	TA	GS
2	9	NEW MEXICO K STATE	2	3002505638	I	18	19S	37E	TEXACO INC.	ACTIVE	GS
5	12	STATE AC COM	1	3002505639	L	19	19S	37E	CONOCO INC.	ACTIVE	GS
5	3	B V CULP NCT A	1	3002505641	C	19	19S	37E	CHEVRON USA INC.	ACTIVE	GS
5	6	B V CULP NCT A	3	3002505643	F	19	19S	37E	CHEVRON USA INC.	ACT DUAL	GS QN
5	7	B V CULP NCT A	4	3002505644	G	19	19S	37E	CHEVRON USA INC.	ACTIVE	GS
5	8	B V CULP NCT A	5	3002505645	H	19	19S	37E	CHEVRON USA INC.	ACTIVE	GS
5	2	B V CULP NCT A	6	3002505646	B	19	19S	37E	CHEVRON USA INC.	ACTIVE	GS
5	15	GRAHAM STATE NCT D	1	3002505648	O	19	19S	37E	CHEVRON USA INC.	ACTIVE	GS
5	11	LAND OFFICE	1	3002505650	K	19	19S	37E	PHILLIPS PET.	ACTIVE	GS
5	4	CULP	1	3002505651	D	19	19S	37E	PHILLIPS PET.	ACTIVE	GS
5	14	NEW MEXICO G STATE	1	3002505652	N	19	19S	37E	TEXACO INC.	ACTIVE	GS
5	13	NEW MEXICO G STATE	2	3002505653	M	19	19S	37E	TEXACO INC.	ACTIVE	GS
6	6	STATE L	2	3002505655	F	20	19S	37E	AMERADA HESS	ACTIVE	GS

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BLOCK	WELL #	LEASE NAME	NO	API NUMBER	UNIT	SEC	T	R			
6	2	STATE T BATTERY 3	6	3002505657	B	20	19S	37E	AMERADA HESS	ACTIVE	GS
6	10	F W KUTTER NCT A	2	3002505659	J	20	19S	37E	CHEVRON USA INC.	ACTIVE	GS
		F W KUTTER NCT A	3	3002505660	J	20	19S	37E	CHEVRON USA INC.	ACTIVE	QN
6	8	NEW MEXICO D STATE	1	3002505661	H	20	19S	37E	CLEARY PET.	ACTIVE	GS
6	16	KLINGSMITH B STATE	1	3002505663	P	20	19S	37E	THE WISER OIL CO.	TA	GS
6	12	H T MATTERN	1	3002505664	L	20	19S	37E	TEXACO INC.	ACTIVE	GS
6	14	H T MATTERN	3	3002505666	N	20	19S	37E	TEXACO INC.	ACTIVE	GS
6	4	STATE F	1	3002505668	D	20	19S	37E	TEXACO INC.	TA	GS
7	12	NEW MEXICO E STATE	1	3002505674	L	21	19S	37E	CLEARY PET.	ACTIVE	GS
7	11	HUSTON	1	3002505675	K	21	19S	37E	AMERADA HESS	ACTIVE	GS
12	12	STATE T	7	3002505710	L	28	19S	37E	GRAHAM ROYALTY	ACTIVE	GS
12	6	F W KUTTER NCT B	4	3002505715	F	28	19S	37E	CHEVRON USA INC.	TA	GS
11	6	STATE K	1	3002505721	F	29	19S	37E	AMERADA HESS	ACTIVE	GS
11	12	STATE P	1	3002505723	L	29	19S	37E	AMERADA HESS	ACTIVE	GS
11	14	STATE R	2	3002505726	N	29	19S	37E	AMERADA HESS	ACTIVE	GS
11	4	FRED LUTHY	2	3002505728	D	29	19S	37E	CHEVRON USA INC.	ACT DUAL	GS QN
11	10	D A WILLIAMS	1	3002505729	J	29	19S	37E	CHEVRON USA INC.	ACTIVE	GS
11	2	LUTHY A STATE	2	3002505733	B	29	19S	37E	THE WISER OIL CO.	ACTIVE	GS
		STATE F	1Y	3002505735	I	29	19S	37E	SHELL WESTERN	TA	GS
11	8	SKELLY E STATE	1	3002505737	H	29	19S	37E	TEXACO INC.	TA	GS
10	2	STATE O	1	3002505739	B	30	19S	37E	AMERADA HESS	ACTIVE	GS
10	7	STATE O	2	3002505740	G	30	19S	37E	AMERADA HESS	ACTIVE	GS
10	8	STATE O	3	3002505741	H	30	19S	37E	AMERADA HESS	ACTIVE	GS
10	1	STATE O	4	3002505742	A	30	19S	37E	AMERADA HESS	TA	GS
10	4	STATE AC COM	3	3002505745	D	30	19S	37E	CONOCO INC.	ACTIVE	GS
10	6	STATE AC COM	5	3002505746	F	30	19S	37E	CONOCO INC.	ACTIVE	GS
10	5	STATE AC COM	6	3002505747	E	30	19S	37E	CONOCO INC.	ACTIVE	GS
10	11	STATE E	1	3002505749	K	30	19S	37E	OXY USA INC.	ACTIVE	GS
10	14	STATE E	2	3002505750	N	30	19S	37E	OXY USA INC.	ACTIVE	GS
10	12	STATE E	3	3002505751	L	30	19S	37E	OXY USA INC.	ACTIVE	GS
10	13	STATE E	4	3002505752	M	30	19S	37E	OXY USA INC.	ACTIVE	GS
10	10	ELLIOTT A STATE	1	3002505753	J	30	19S	37E	MARATHON	ACTIVE	GS
10	15	ELLIOTT A STATE	3	3002505755	O	30	19S	37E	MARATHON	ACTIVE	GS
		ELLIOTT A STATE	4	3002505756	P	30	19S	37E	MARATHON	ACTIVE	QN
10	16	ELLIOTT A STATE	5	3002505757	P	30	19S	37E	MARATHON	ACTIVE	GS
15	8	J R PHILLIPS A	2	3002505760	H	31	19S	37E	AMERADA HESS	ACTIVE	GS
15	10	B V CULP NCT B	1	3002505762	J	31	19S	37E	CHEVRON USA INC.	ACTIVE	QN
15	16	B V CULP NCT B	3	3002505764	P	31	19S	37E	CHEVRON USA INC.	ACTIVE	GS
15	2	J R PHILLIPS	1	3002505766	B	31	19S	37E	CHEVRON USA INC.	TA	GS
		J R PHILLIPS A	1	3002505768	M	31	19S	37E	ARCO OIL & GAS	ACTIVE	GS
15	14	J R PHILLIPS A	2	3002505769	N	31	19S	37E	ARCO OIL & GAS	ACTIVE	GS
15	12	J R PHILLIPS A	4	3002505771	L	31	19S	37E	ARCO OIL & GAS	ACTIVE	GS

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PROPOSED NMG/SAU#		WELL		UNIT SEC T R				OPERATOR	STATUS	
BLOCK	WELL #	LEASE NAME	NO	API NUMBER	UNIT	SEC	T	R	OPERATOR	STATUS
15	13	J R PHILLIPS A	5	3002505772	M	31	19S	37E	ARCO OIL & GAS	TA GS
15	3	J R PHILLIPS B	1	3002505773	C	31	19S	37E	ARCO OIL & GAS	ACTIVE GS
15	4	J R PHILLIPS B	2	3002505774	D	31	19S	37E	ARCO OIL & GAS	ACTIVE GS
15	6	J R PHILLIPS B	3	3002505775	F	31	19S	37E	ARCO OIL & GAS	ACTIVE GS
16	6	D F LARSEN	1	3002505781	F	32	19S	37E	AMERADA HESS	ACTIVE GS
16	2	D F LARSEN	3	3002505783	B	32	19S	37E	AMERADA HESS	TA GS
16	10	MAY L LOVE COM	1	3002505785	J	32	19S	37E	AMERADA HESS	ACTIVE GS
16	4	STATE U	2	3002505787	D	32	19S	37E	AMERADA HESS	ACTIVE GS
16	16	MAY L LOVE COM	2	3002505790	P	32	19S	37E	CHEVRON USA INC.	ACTIVE GS
16	14	BERTHA BARBER	3	3002505794	N	32	19S	37E	MARATHON	ACTIVE GS
16	12	STATE H	1	3002505796	L	32	19S	37E	TEXACO INC.	ACTIVE GS
17	14	S PHILLIPS	1	3002505799	N	33	19S	37E	AMERADA HESS	TA GS
17	9	J H WILLIAMS B	3	3002505801	I	33	19S	37E	AMERADA HESS	ACTIVE GS
17	12	HATCHETT	1	3002505803	L	33	19S	37E	CHEVRON USA INC.	P&A
17	4	BORDAGES	1	3002505805	D	33	19S	37E	GREAT WESTERN	ACTIVE QN
17	2	J H WILLIAMS B	1	3002505807	B	33	19S	37E	AMERADA HESS	ACTIVE GS
17	1	J H WILLIAMS	1	3002505809	A	33	19S	37E	ARCO OIL & GAS	TA GS
17	16	J H WILLIAMS B	1	3002505812	P	33	19S	37E	AMERADA HESS	ACTIVE GS
17	10	J H WILLIAMS B	2	3002505813	J	33	19S	37E	AMERADA HESS	ACTIVE GS
23	16	J H WILLIAMS	1	3002505814	P	34	19S	37E	AMERADA HESS	ACTIVE GS
23	14	J H WILLIAMS A	1	3002505815	N	34	19S	37E	AMERADA HESS	ACTIVE GS
23	15	J H WILLIAMS	4	3002505817	O	34	19S	37E	AMERADA HESS	ACTIVE GS
23	2	J W COOPER C	2	3002505870	B	3	20S	37E	AMERADA HESS	ACTIVE GS
23	7	J W COOPER D	1	3002505872	G	3	20S	37E	AMERADA HESS	ACTIVE GS
23	6	J W COOPER B	1	3002505875	F	3	20S	37E	AMERADA HESS	ACTIVE GS
		J W COOPER F	2	3002505881	D	3	20S	37E	W K BYROM	ACTIVE QN
23	4	J W COOPER F	4	3002505882	D	3	20S	37E	AMERADA HESS	ACTIVE GS
22	14	M E LAUGHLIN	3	3002505890	N	4	20S	37E	AMERADA HESS	ACTIVE GS
22	10	M E LAUGHLIN	5	3002505892	J	4	20S	37E	AMERADA HESS	ACTIVE GS
22	8	HUMBLE LAUGHLIN	1	3002505894	H	4	20S	37E	AMERADA HESS	ACTIVE GS
22	16	HUMBLE LAUGHLIN BATTERY 2	3	3002505896	P	4	20S	37E	AMERADA HESS	ACTIVE GS
22	12	M E LAUGHLIN	1	3002505898	L	4	20S	37E	ORYX ENERGY	ACTIVE GS
22	6	M E LAUGHLIN	1	3002505899	F	4	20S	37E	TEXACO INC.	ACTIVE GS
21	16	LAUGHLIN	3	3002505906	P	5	20S	37E	GRAHAM ROYALTY	ACTIVE GS
21	11	BERTHA BARBER	4	3002505909	K	5	20S	37E	MARATHON	TA GS
21	4	BERTHA BARBER	5	3002505910	D	5	20S	37E	MARATHON	ACTIVE GS
21	12	BERTHA BARBER	6	3002505911	L	5	20S	37E	MARATHON	TA GS
21	6	BERTHA BARBER	7	3002505912	F	5	20S	37E	MARATHON	TA GS
21	5	BERTHA BARBER	8	3002505913	E	5	20S	37E	MARATHON	TA GS
21	9	M E LAUGHLIN	2	3002505918	I	5	20S	37E	ORYX ENERGY	ACTIVE GS
21	2	J W COOPER	1	3002505919	B	5	20S	37E	TEXACO INC.	ACTIVE GS
21	7	J W COOPER	3	3002505921	G	5	20S	37E	TEXACO INC.	ACTIVE GS

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21	8	J W COOPER	4	3002505922	H	5	20S	37E	TEXACO INC.	ACTIVE GS
		L M LAMBERT	1	3002505925	B	6	20S	37E	AMERADA HESS	ACTIVE QN
20	7	L M LAMBERT	2	3002505926	G	6	20S	37E	AMERADA HESS	ACTIVE ELLEN
20	8	L M LAMBERT	4	3002505928	H	6	20S	37E	AMERADA HESS	TA GS
		L M LAMBERT	6	3002505930	H	6	20S	37E	AMERADA HESS	ACTIVE GS
20	6	L M LAMBERT	11	3002505935	B	6	20S	37E	AMERADA HESS	ACTIVE GS
20	3	J R PHILLIPS	2	3002505955	D	6	20S	37E	TEXACO INC.	P&A
20	5	J R PHILLIPS	3	3002505956	E	6	20S	37E	TEXACO INC.	ACTIVE GS
20	6	J R PHILLIPS	4	3002505957	F	6	20S	37E	TEXACO INC.	ACTIVE PDCK
24	7	W H LAUGHLIN	3	3002506036	G	9	20S	37E	MARATHON	ACT DUAL GS QN
24	2	V LAUGHLIN	3	3002506037	B	9	20S	37E	AMERADA HESS	TA GS
24	5	W H LAUGHLIN	1	3002506038	E	9	20S	37E	MARATHON	ACTIVE GS
24	6	W H LAUGHLIN	2	3002506039	F	9	20S	37E	MARATHON	ACTIVE GS
24	8	W H LAUGHLIN	4	3002506040	H	9	20S	37E	MARATHON	TA GS
4	17	STATE C	1Y	3002509318	A	24	19S	36E	SHELL WESTERN	ACT DUAL GS QN
5	10	STATE D	1	3002509882	J	19	19S	37E	SHELL WESTERN	ACTIVE GS
22	2	COOPER A	1	3002509891	B	4	20S	37E	SHELL WESTERN	TA GS
13	8	W B MAVEETY	3	3002512461	H	35	19S	36E	ORYX ENERGY	ACTIVE GS
13	10	W B MAVEETY	4	3002512462	J	35	19S	36E	ORYX ENERGY	ACTIVE GS
13	2	W B MAVEETY	6	3002512463	B	35	19S	36E	ORYX ENERGY	ACTIVE GS
		W B MAVEETY	5	3002512464	G	35	19S	36E	ORYX ENERGY	ACTIVE QN
14	2	STATE V	2	3002512466	B	36	19S	36E	AMERADA HESS	ACTIVE GS
14	12	STATE F	2	3002512470	L	36	19S	36E	AMERADA HESS	ACTIVE GS
14	14	STATE F	4	3002512472	N	36	19S	36E	AMERADA HESS	ACTIVE GS
14	16	GRAHAM STATE NCT F	1	3002512474	P	36	19S	36E	CHEVRON USA INC.	ACTIVE GS
14	9	GRAHAM STATE NCT F	2	3002512475	I	36	19S	36E	CHEVRON USA INC.	ACTIVE GS
		GRAHAM STATE NCT F	3	3002512476	J	36	19S	36E	CHEVRON USA INC.	TA GS
14	15	GRAHAM STATE NCT F	4	3002512477	O	36	19S	36E	CHEVRON USA INC.	ACTIVE QN
14	16	GRAHAM STATE NCT F	5	3002512478	P	36	19S	36E	CHEVRON USA INC.	ACTIVE GS
14	6	STATE B	4	3002512480	F	36	19S	36E	SHELL WESTERN	ACTIVE GS
14	15	GRAHAM STATE NCT F	7	3002512482	O	36	19S	36E	CHEVRON USA INC.	ACTIVE ABO
14	4	STATE B	2	3002512484	D	36	19S	36E	SHELL WESTERN	ACTIVE GS
4	8	STATE C	2	3002512773	H	24	19S	36E	SHELL WESTERN	TA GS
		STATE A 17	7	3002520226	M	17	19S	37E	CONOCO INC.	ACTIVE GS
7	5	NEW MEXICO E STATE	2	3002523208	E	21	19S	37E	CLEARY PET.	ACTIVE GS
7	4	NEW MEXICO E STATE	3	3002523346	D	21	19S	37E	CLEARY PET.	ACTIVE GS
22	4	COOPER B	2Y	3002524081	D	4	20S	37E	SHELL WESTERN	ACTIVE GS
3	9	GRAHAM STATE NCT G	4	3002524082	I	17	19S	37E	CHEVRON USA INC.	ACTIVE GS
14	8	STATE V	6	3002524094	H	36	19S	36E	AMERADA HESS	ACTIVE GS
14	10	GRAHAM STATE NCT F	8	3002524166	J	36	19S	36E	CHEVRON USA INC.	TA GS
		STATE T	8	3002524423	K	25	19S	36E	AMERADA HESS	TA GS
5	25	STATE D	3	3002526214	I	19	19S	37E	SHELL WESTERN	ACTIVE GS

NORTH MONUMENT GRAYBURG SAN ANDRES UNIT

ATTACHMENT VI TO FORM C-108
APPLICATION FOR AUTHORIZATION
TO INJECT WATER

WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

UNIT AREA PRODUCERS

PROPOSED NMG/SAU#		WELL						OPERATOR		STATUS	
BLOCK	WELL #	LEASE NAME	NO	API NUMBER	UNIT	SEC	T	R			
12	14	BORDAGES	3	3002526607	N	28	19S	37E	GREAT WESTERN	ACTIVE	GS
17	3	BORDAGES	4	3002526608	C	33	19S	37E	GREAT WESTERN	TA	GS
		NEW MEXICO J STATE	4	3002528803	I	24	19S	36E	TEXACO INC.	ACTIVE	GS
4	32	NEW MEXICO F STATE	3	3002529735	P	24	19S	36E	TEXACO INC.	ACTIVE	GS
4	25	NEW MEXICO F STATE	4	3002529771	I	24	19S	36E	TEXACO INC.	ACTIVE	GS
		GRAHAM STATE NCT D	3	3002530332	P	19	19S	37E	CHEVRON USA INC.	ACTIVE	GS

LEGEND

D&A - DRY AND ABANDONED WELL
 P&A - PLUGGED AND ABANDONED WELL
 TA - TEMPORARYILY ABANDONED WELL
 ACTIVE,ACT - ACTIVE PRODUCING WELL
 DUAL - DUALY COMPLETED WELL

GS,G - GRAYBURG/SAN ANDRES PRODUCER
 QN - EUMONT/YATES/SEVEN RIVERS/QUEEN PRODUCER
 BLBR,BL,B - BLINEBRY PRODUCER
 ABO,A - ABO PRODUCER
 ELLEN - ELLENBURGER PRODUCER
 PDCK,PD,P - PADDOCK PRODUCER
 MCK,MK - MCKEE PRODUCER

NORTH MONUMENT GRAYBURG SAN ANDRES UNIT

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TO INJECT WATER

WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

OTHER WELLS IN THE AREA OF REVIEW

PROPOSED NMG/SAU#											
BLOCK	WELL #	LEASE NAME	WELL NO	API NUMBER	UNIT	SEC	T	R	OPERATOR	STATUS	
		STATE KP 13	1	3002503998	F	13	19S	36E	CONOCO INC.	ACTIVE QN	
		MONSTATE	4	3002504002	N	13	19S	36E	TEXACO INC.	ACTIVE QN	
		MONSTATE	5	3002504003	H	13	19S	36E	TEXACO INC.	ACTIVE QN	
		J L BARR	2	3002504047	L	24	19S	36E	DRYX ENERGY	ACTIVE QN	
		NEW MEXICO J STATE	3	3002504052	F	24	19S	36E	TEXACO INC.	ACTIVE QN	
		NORTHWEST EUMONT UNIT	139	3002504074	E	26	19S	36E	CHEVRON USA INC.	TA QN	
		NORTHWEST EUMONT UNIT	159	3002504102	K	34	19S	36E	CHEVRON USA INC.	TA QN	
		NORTHWEST EUMONT UNIT	160	3002504103	J	34	19S	36E	CHEVRON USA INC.	ACTIVE QN	
		NORTHWEST EUMONT UNIT	162	3002504114	N	34	19S	36E	CHEVRON USA INC.	ACTIVE QN	
		NORTHWEST EUMONT UNIT	161	3002504116	O	34	19S	36E	CHEVRON USA INC.	TA QN	
		J R PHILLIPS	1	3002504130	A	1	20S	36E	AMERADA HESS	TA GS	
		J R PHILLIPS	2	3002504131	H	1	20S	36E	AMERADA HESS	ACTIVE GS	
		J R PHILLIPS	3	3002504132	G	1	20S	36E	AMERADA HESS	ACTIVE QN	
		J R PHILLIPS	4	3002504133	B	1	20S	36E	AMERADA HESS	ACT DUAL GS PD	
		J R PHILLIPS	5	3002504134	A	1	20S	36E	AMERADA HESS	ACTIVE ELLEN	
		J R PHILLIPS	6	3002504135	B	1	20S	36E	AMERADA HESS	ACTIVE PDCCK	
		J R PHILLIPS	7	3002504136	H	1	20S	36E	AMERADA HESS	TA DUAL AB PDK	
		J R PHILLIPS	8	3002504137	G	1	20S	36E	AMERADA HESS	ACTIVE GS	
		J R PHILLIPS	9	3002504138	A	1	20S	36E	AMERADA HESS	TA GS	
		STATE D	5	3002504143	C	1	20S	36E	AMERADA HESS	ACTIVE BLBR	
		STATE D	6	3002504144	F	1	20S	36E	AMERADA HESS	ACT DUAL GS BL	
		STATE H	1	3002504145	O	1	20S	36E	AMERADA HESS	ACTIVE GS	
		STATE H	2	3002504146	J	1	20S	36E	AMERADA HESS	ACTIVE GS	
		STATE H	3	3002504147	J	1	20S	36E	AMERADA HESS	ACTIVE BLBR	
		STATE A	6	3002504169	A	2	20S	36E	MOBIL TX & NM	ACTIVE QN	
		REED SANDERSON UNIT	10	3002504181	K	3	20S	36E	CONOCO INC.	TA QN	
		REED SANDERSON UNIT	12	3002504185	O	3	20S	36E	CONOCO INC.	TA QN	
		REED SANDERSON UNIT	11	3002504186	J	3	20S	36E	CONOCO INC.	TA QN	
		REED SANDERSON UNIT	4	3002504187	B	3	20S	36E	CONOCO INC.	ACTIVE QN	
		SANDERSON B 1	1	3002504198	A	10	20S	36E	CONOCO INC.	TA GS	
		SANDERSON B 1	2	3002504204	H	10	20S	36E	CONOCO INC.	ACTIVE QN	
		H W ANDREWS	2	3002504210	A	11	20S	36E	AMERADA HESS	ACTIVE GS	
		H W ANDREWS	3	3002504211	H	11	20S	36E	AMERADA HESS	TA GS	
		MARY J BYRD	1	3002504218	B	11	20S	36E	ARCO OIL & GAS	ACTIVE GS	
		WILLIAM P BYRD	1	3002504221	C	11	20S	36E	ARCO OIL & GAS	ACTIVE GS	
		WILLIAM P BYRD	2	3002504222	D	11	20S	36E	ARCO OIL & GAS	P&A GS	
		WILLIAM P BYRD	4	3002504224	F	11	20S	36E	ARCO OIL & GAS	ACTIVE GS	
		BYRD GAS COM	5	3002504225	E	11	20S	36E	ARCO OIL & GAS	ACTIVE QN	
		BYRD GAS COM	7	3002504226	C	11	20S	36E	ARCO OIL & GAS	ACTIVE QN	
		H W ANDREWS	1	3002504227	D	12	20S	36E	AMERADA HESS	ACTIVE QN	
		H W ANDREWS	8	3002504231	D	12	20S	36E	AMERADA HESS	ACTIVE GS	
		AMERICAN NATIONAL-KEOHANE	1	3002505630	C	18	19S	37E	TEXACO INC.	ACTIVE QN	

NORTH MONUMENT GRAYBURG SAN ANDRES UNIT

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TO INJECT WATER

WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

OTHER WELLS IN THE AREA OF REVIEW

PROPOSED NMG/SAU#											
BLOCK	WELL #	LEASE NAME	WELL NO	API NUMBER	UNIT	SEC	T	R	OPERATOR	STATUS	
		SAUNDERS STATE K GAS COM	1	3002505633	O	18	19S	37E	TEXACO INC.	ACTIVE QN	
		MONUMENT UNIT	1	3002505640	F	19	19S	37E	CHEVRON USA INC.	D&A	
		BORDAGES	2	3002505677	N	21	19S	37E	REPOLLO OIL CO	D&A	
		HUSTON COM	1	3002505679	K	21	19S	37E	S.E. PRODUCTION C	TA QN	
		MEXICO X COM	1	3002505736	H	29	19S	37E	TEXACO INC.	ACTIVE QN	
		STATE E	5	3002505743	N	30	19S	37E	OXY USA INC.	ACTIVE QN	
		STATE AC	4	3002505748	C	30	19S	37E	CONOCO INC.	ACTIVE QN	
		J R PHILLIPS A COM	1	3002505759	G	31	19S	37E	AMERADA HESS	ACTIVE QN	
		B V CULP NCT B	4	3002505765	P	31	19S	37E	CHEVRON USA INC.	ACT DUAL GS BL	
		J R PHILLIPS B	5	3002505777	E	31	19S	37E	ARCO OIL & GAS	TA QN	
		J R PHILLIPS A	6	3002505778	L	31	19S	37E	ARCO OIL & GAS	ACTIVE QN	
		J R PHILLIPS A	7	3002505779	N	31	19S	37E	ARCO OIL & GAS	ACT DUAL GS BL	
		WILLIAMS	5	3002505808	I	33	19S	37E	AMERADA HESS	TA QN	
		J H WILLIAMS A	2	3002505820	M	34	19S	37E	AMERADA HESS	ACTIVE QN	
		J W COOPER	3	3002505876	B	3	20S	37E	AMERADA HESS	ACTIVE QN	
		STATE SEC 3	1	3002505879	A	3	20S	37E	SHELL WESTERN	TA QN	
		SHELL STATE	14	3002505883	H	3	20S	37E	MERIDIAN	ACTIVE QN	
		EUMONT GAS COM NO 1	1	3002505886	J	4	20S	37E	EXXON CORP	ACTIVE QN	
		EUMONT GAS COM NO 1	2	3002505887	L	4	20S	37E	EXXON CORP	ACTIVE QN	
		E S ADKINS	1	3002505901	M	5	20S	37E	AMERADA HESS	TA DUAL GS PDK	
		EUNICE MONUMENT EUMONT SW	5	3002505902	M	5	20S	37E	RICE ENGINEERING	SMD	
		E S ADKINS	3	3002505903	M	5	20S	37E	AMERADA HESS	ACTIVE QN	
		LAUGHLIN B	5	3002505907	O	5	20S	37E	DOYLE HARTMAN	ACTIVE QN	
		BERTHA BARBER	9	3002505914	E	5	20S	37E	MARATHON	TA BLBR	
		BERTHA BARBER	10	3002505915	L	5	20S	37E	MARATHON	ACTIVE BLBR	
		BERTHA BARBER	11	3002505916	D	5	20S	37E	MARATHON	ACTIVE QN	
		BERTHA BARBER	12	3002505917	L	5	20S	37E	MARATHON	TA DUAL PD/MCK	
		L M LAMBERT	5	3002505929	G	6	20S	37E	AMERADA HESS	TA BLBRY	
		L M LAMBERT	7	3002505931	A	6	20S	37E	AMERADA HESS	ACTIVE GS	
		L M LAMBERT	8	3002505932	B	6	20S	37E	AMERADA HESS	ACTIVE PDDCK	
		L M LAMBERT	9	3002505933	H	6	20S	37E	AMERADA HESS	TA PDCK	
		L M LAMBERT	10	3002505934	G	6	20S	37E	AMERADA HESS	ACTIVE PDCK	
		G C MATTHEWS	4	3002505945	I	6	20S	37E	CHEVRON USA INC.	TA GS	
		G C MATTHEWS	5	3002505946	J	6	20S	37E	CHEVRON USA INC.	ACTIVE ABO	
		G C MATTHEWS	6	3002505947	I	6	20S	37E	CHEVRON USA INC.	TA TRIP B/MK/G	
		G C MATTHEWS	11	3002505952	I	6	20S	37E	CHEVRON USA INC.	TA DUAL PD BL	
		J R PHILLIPS	5	3002505958	D	6	20S	37E	TEXACO INC.	ACTIVE ABO	
		J R PHILLIPS	6	3002505959	E	6	20S	37E	TEXACO INC.	ACTIVE ABO	
		J R PHILLIPS	7	3002505960	E	6	20S	37E	TEXACO INC.	TA BLBR	
		J R PHILLIPS	8	3002505961	F	6	20S	37E	TEXACO INC.	TA BLBR	
		J R PHILLIPS	9	3002505962	C	6	20S	37E	TEXACO INC.	ACTIVE GS	
		J R PHILLIPS	10	3002505963	F	6	20S	37E	TEXACO INC.	TA QN	

NORTH MONUMENT GRAYBURG SAN ANDRES UNIT

ATTACHMENT VI TO FORM C-108
APPLICATION FOR AUTHORIZATION
TO INJECT WATER

WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

OTHER WELLS IN THE AREA OF REVIEW

PROPOSED NMG/SAU#		WELL							OPERATOR		STATUS	
BLOCK	WELL #	LEASE NAME	NO	API NUMBER	UNIT	SEC	T	R	OPERATOR	STATUS		
		J R PHILLIPS	11	3002505964	D	6	20S	37E	TEXACO INC.	ACTIVE ELLEN		
		J R PHILLIPS	12	3002505965	F	6	20S	37E	TEXACO INC.	ACTIVE PDCK		
		L VAN ETEN	4	3002506044	K	9	20S	37E	TEXACO INC.	ACTIVE GS		
		H T MATTERN	5	3002509885	L	20	19S	37E	TEXACO INC.	ACTIVE QN		
		J W COOPER	5	3002509894	G	5	20S	37E	TEXACO INC.	ACTIVE QN		
		STATE V	3	3002512467	H	36	19S	36E	AMERADA HESS	ACTIVE QN		
		STATE F	5	3002512473	N	36	19S	36E	AMERADA HESS	TA TRIP G/A/MK		
		GRAHAM STATE NCT F	6	3002512479	P	36	19S	36E	CHEVRON USA INC.	ACT DUAL GS BL		
		STATE B	5	3002512481	F	36	19S	36E	SHELL WESTERN	D&A		
		G C MATTHEWS	2	3002512721	J	6	20S	37E	CHEVRON USA INC.	ACTIVE QN		
		NEW MEXICO E STATE NCT 1	5	3002512722	K	1	20S	36E	TEXACO INC.	ACT DUAL GS AB		
		J W COOPER	1	3002520452	F	3	20S	37E	ASHMUN & HILLIARD	TA PADD		
		BRITT B	23	3002520648	K	3	20S	37E	CONOCO INC.	TA TUBB		
		BERTIE WHITMIRE	9	3002520686	H	8	20S	37E	CHEVRON USA INC.	TA GS		
		EUNICE MONUMENT		3002521496	K	33	19S	37E	RICE ENGINEERING	SERVICE		
		LEA 373 A	1	3002521714	I	34	19S	37E	ARCO OIL & GAS	TA TUBB		
		V LAUGHLIN	4	3002521926	A	9	20S	37E	AMERADA HESS	ACTIVE QN		
		J R PHILLIPS A	9	3002523632	M	31	19S	37E	ARCO OIL & GAS	ACTIVE ELLEN		
		STATE F	6	3002524422	M	36	19S	36E	AMERADA HESS	TA GS		
		J R PHILLIPS B	6	3002524799	C	31	19S	37E	ARCO OIL & GAS	ACTIVE QN		
		STATE J GAS COM	4	3002525216	K	2	20S	36E	AMERADA HESS	ACTIVE QN		
		STATE P GAS COM	3	3002525396	K	29	19S	37E	AMERADA HESS	ACTIVE QN		
		CITIES LAUGHLIN	1	3002525667	J	5	20S	37E	HARTMAN DOYLE	ACTIVE QN		
		R. H. HOUSTON JR.	1	3002525873	O	8	19S	37E	MERIDIAN	ACTIVE QN		
		MAVEETY STATE GAS COM	8	3002526152	O	35	19S	36E	ORYX ENERGY	ACTIVE QN		
		W A WEIR B	3	3002526168	B	26	19S	36E	AMERADA HESS	ACTIVE QN		
		STATE U GAS COM	2	3002526169	C	32	19S	37E	AMERADA HESS	ACTIVE QN		
		STATE O	5	3002526170	H	30	19S	37E	AMERADA HESS	ACTIVE QN		
		R H HUSTON	2	3002526417	J	8	19S	37E	MERIDIAN	ACTIVE GS		
		NEW MEXICO G STATE COM	3	3002526441	M	19	19S	37E	TEXACO INC.	ACTIVE QN		
		STATE L GAS COM	3	3002526535	E	20	19S	37E	AMERADA HESS	ACTIVE QN		
		B V CULP NCT A	9	3002526663	J	19	19S	37E	CHEVRON USA INC.	ACTIVE QN		
		GULF-HOUSTON	1	3002526674	B	7	19S	37E	TIERRA EXPL INC	ACTIVE QN		
		GRAHAM STATE NCT C	10	3002526771	B	24	19S	36E	CHEVRON USA INC.	ACTIVE QN		
		MONUMENT ABO UNIT	1	3002526886	C	2	20S	36E	AMERADA HESS	ACTIVE ABO		
		GRAHAM STATE NCT C COM	9	3002527082	B	25	19S	36E	CHEVRON USA INC.	ACTIVE QN		
		ELLEN WEIR	1	3002527660	M	3	20S	37E	MERIDIAN	ACTIVE QN		
		BYROM-WILLIAMS	1	3002527808	G	33	19S	37E	MERIDIAN	ACTIVE QN		
		STATE 28	1	3002528024	O	28	19S	37E	MERIDIAN	ACTIVE QN		
		C H KYTE	3	3002528176	M	7	19S	37E	CHEVRON USA INC.	ACTIVE QN		
		MONSTATE "TN"	6	3002530063	J	13	19S	36E	TEXACO INC.	TA GS		
		AMERICAN NATIONAL KEOHANE	2	3002530814	G	18	19S	37E	TEXACO INC.	ACTIVE QN		

NORTH MONUMENT GRAYBURG SAN ANDRES UNIT

ATTACHMENT VI TO FORM C-108
APPLICATION FOR AUTHORIZATION
TO INJECT WATER

WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

PLUGGED AND ABANDONED WELLS INSIDE THE UNIT AREA

PROPOSED NMG/SAU#		WELL						OPERATOR		STATUS	
BLOCK	WELL #	LEASE NAME	NO	API NUMBER	UNIT	SEC	T	R			
8	12	STATE A 26	2	3002504073	L	26	19S	36E	CONOCO INC.	P&A	GS
8	16	C T BATES	1	3002504076	P	26	19S	36E	CHEVRON USA INC.	P&A	GS
		STATE A	1	3002504171	E	2	20S	36E	UNION TEXAS PETRO	P&A	GS
18	21	REED A 3	5	3002504177	G	3	20S	36E	CONOCO INC.	P&A	GS
1	11	STATE C	1	3002505569	K	7	19S	37E	GREAT WESTERN	P&A	GS
3	5	STATE J	1	3002505619	E	17	19S	37E	TEXACO INC.	P&A	GS
3	4	STATE J	2	3002505620	D	17	19S	37E	TEXACO INC.	P&A	GS
5	16	GRAHAM STATE NCT D	2	3002505649	P	19	19S	37E	CHEVRON USA INC.	P&A	GS
7	14	SINCLAIR FEDERAL	2	3002505676	N	21	19S	37E	C E LONG	P&A	GS
12	4	F W KUTTER NCT B	3	3002505714	D	28	19S	37E	CHEVRON USA INC.	P&A	DUAL GS QN
12	3	SINCLAIR FEDERAL	1	3002505716	C	28	19S	37E	C E LONG	P&A	GS
11	16	WILLIAMS	3	3002505731	P	29	19S	37E	CHEVRON USA INC.	P&A	GS
16	3	D F LARSEN	2	3002505782	C	32	19S	37E	AMERADA HESS	P&A	GS
16	9	CRUTCHFIELD	1	3002505788	I	32	19S	37E	ARCO OIL & GAS	P&A	DUAL GS QN
16	8	W L CRUTCHFIELD	1	3002505791	H	32	19S	37E	GREAT WESTERN	P&A	GS
17	5	W E HATCHETT	2	3002505804	E	33	19S	37E	CHEVRON USA INC.	P&A	GS
23	10	MONUMENT STATE	1	3002505816	J	34	19S	37E	CHI ENERGY	P&A	DUAL GS QN
4	34	LEA 373 STATE	4	3002505823	I	34	19S	37E	ARCO OIL & GAS	P&A	GS
23	12	WEIR A	1	3002505884	L	3	20S	37E	M & M PROD CO.	P&A	
		LAUGHLIN	1	3002505904	J	5	20S	37E	HARTMAN	P&A	GS
21	15	LAUGHLIN	2	3002505905	O	5	20S	37E	GRAHAM ROYALTY	P&A	GS
20	4	J R PHILLIPS	1	3002505954	D	6	20S	37E	TEXACO INC.	P&A	GS
24	1	LAUGHLIN	4	3002506005	A	8	20S	37E	GRAHAM ROYALTY	P&A	GS
24	4	V LAUGHLIN	1	3002506034	D	9	20S	37E	AMERADA HESS	P&A	DUAL GS QN
2	4	AMERICAN NATIONAL INS CO	1	3002509881	D	18	19S	37E	AMERADA HESS	P&A	GS
22	4	COOPER B	2	3002509890	D	4	20S	37E	SHELL WESTERN	P&A	GS

NORTH MONUMENT GRAYBURG SAN ANDRES UNIT

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TO INJECT WATER

WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

PLUGGED AND ABANDONED WELLS OUTSIDE THE UNIT AREA

PROPOSED NMG/SAU#		WELL		UNIT SEC T R				OPERATOR	STATUS	
BLOCK	WELL #	LEASE NAME	NO	API NUMBER	UNIT	SEC	T	R	OPERATOR	STATUS
		W A WEIR A	1	3002504123	A	35	19S	36E	CHEVRON USA INC.	P&A
		SELBY MAVEETY	1A	3002504128	N	35	19S	36E	ARCO OIL & GAS	P&A
		SELBY MAVEETY	1Y	3002504129	N	35	19S	36E	ARCO OIL & GAS	P&A
		ELBERT SHIPP NCT B	3	3002505572	H	7	19S	37E	CHEVRON USA INC.	P&A
		KUTTER D	2	3002505580	E	8	19S	37E	CHEVRON USA INC.	P&A
		STATE A 3071 D COM	1	3002505717	J	28	19S	37E	MARATHON	P&A
		BURKE	1	3002505719	P	28	19S	37E	AZTEC OIL & GAS	P&A
		J R PHILLIPS A	8	3002505780	M	31	19S	37E	ARCO OIL & GAS	P&A
		CRUTCHFIELD 32	1	3002505792	I	32	19S	37E	GRAHAM ROYALTY	P&A
		WILLIAMS	2	3002505806	P	33	19S	37E	RANDEL, O H	P&A
		WILLIAMS	1	3002505811	J	33	19S	37E	RANDEL, O H	P&A
		J H WILLIAMS	2	3002505818	O	34	19S	37E	AMERADA HESS	P&A
		J H WILLIAMS	3	3002505819	N	34	19S	37E	AMERADA HESS	P&A
		BRITT B	1	3002505873	K	3	20S	37E	CARPER-BARNETT-HA	P&A
		J W COOPER C	1	3002505878	B	3	20S	37E	AMERADA HESS	P&A
		WEIR A	2	3002505880	N	3	20S	37E	ORO PESO OIL CO.	P&A
		HUMBLE LAUGHLIN	4	3002505885	H	4	20S	37E	AMERADA HESS	P&A
		BRITT B	1	3002505923	N	5	20S	37E	UNION TEXAS	P&A
		E H BOLDING	1	3002506053	D	10	20S	37E	REPOLLO	P&A
		STATE B	5	3002512481	F	36	19S	36E	SHELL WESTERN	P&A
		STATE V	5	3002520517	G	36	19S	36E	AMERADA HESS	P&A
		ELLEN WEIR	1	3002520589	L	3	20S	37E	ASHMUN & HILLIARD	P&A
		ELBERT SHIPP	4	3002520684	C	19	19S	37E	CHEVRON USA INC.	P&A
		SALINE WATER WELL	WS-3	3002524945	N	34	19S	36E	CLIMAX CHEMICAL	P&A
		SALINE WATER WELL	WS-4	3002525655	P	34	19S	36E	CLIMAX CHEMICAL	P&A
		COOPER	1	3002530527	B	3	20S	37E	CHI OPERATING	P&A

NORTH MONUMENT GRAYBURG/SAN ANDRES UNIT
ATTACHMENT VII TO FORM C108
APPLICATION FOR AUTHORIZATION TO INJECT WATER

DATA ON PROPOSED OPERATION
OF
NORTH MONUMENT GRAYBURG/SAN ANDRES UNIT

Proposed average and maximum daily rate and volume of water to be injected:

Average Daily Rate of 750 BWPD
Maximum Daily Rate of 1000 BWPD

The injection volume is expected to reach 196,000,000 barrels of water at 100% fillup. This volume may reach 620,000,000 barrels of water by abandonment.

The injection system is a closed system.

The proposed average and maximum* surface injection pressures are:

Average injection pressure 350 psi
Maximum injection pressure 710 psi

* Until a fracture gradient is determined,
maximum injection pressure will be based
on a .2 psi/foot gradient.

The source of injection water will be from San Andres water supply wells and produced water from existing North Monument Grayburg/San Andres Unit producers. The San Andres formation water is compatible with the produced water from the Unit wells (see attached water analysis).

P.O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 or 563-1040

Martin Water Laboratories, Inc.
WATER CONSULTANTS SINCE 1953
BACTERIAL AND CHEMICAL ANALYSES

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

To: Ms. Denise Wann
P. O. Drawer "D"
Monument, NM 88265

Laboratory No. 1290205
Sample received 12-20-90
Results reported 1-2-91

Company: Amerada Hess Corporation
County: Lea, NM
Field: Eunice Monument
Lease: As Listed

Subject: To determine the amount of precipitated barium sulfate in submitted mixtures of waters.

<u>Mixture of Waters</u>	<u>Precipitated Barium Sulfate</u>	
	<u>as BaSO₄, mg/l</u>	
1. 90% EMSU water supply well #460 & 10% Larsen #4	0.2	
2. 60% EMSU water supply well #460 & 40% Larsen #4	0.2	
3. 50% EMSU water supply well #460 & 50% Larsen #4	0.0	
4. 40% EMSU water supply well #460 & 60% Larsen #4	0.3	
5. 90% EMSU water supply well #460 & 10% State F #3	0.4	
6. 60% EMSU water supply well #460 & 40% State F #3	0.0	
7. 50% EMSU water supply well #460 & 50% State F #3	0.4	
8. 40% EMSU water supply well #460 & 60% State F #3	3.4	
9. 90% EMSU water supply well #460 & 10% State F #4	0.0	
10. 60% EMSU water supply well #460 & 40% State F #4	0.3	
11. 50% EMSU water supply well #460 & 50% State F #4	0.3	
12. 40% EMSU water supply well #460 & 60% State F #4	0.5	
13. 90% EMSU water supply well #460 & 10% State K #1	0.2	
14. 60% EMSU water supply well #460 & 40% State K #1	0.2	
15. 50% EMSU water supply well #460 & 50% State K #1	*	
16. 40% EMSU water supply well #460 & 60% State K #1	0.0	
17. 90% EMSU water supply well #461 & 10% Larsen #4	0.4	
18. 60% EMSU water supply well #461 & 40% Larsen #4	0.0	
19. 50% EMSU water supply well #461 & 50% Larsen #4	0.2	
20. 40% EMSU water supply well #461 & 60% Larsen #4	0.0	
21. 90% EMSU water supply well #461 & 10% State F #3	0.0	
22. 60% EMSU water supply well #461 & 40% State F #3	0.1	
23. 50% EMSU water supply well #461 & 50% State F #3	0.2	
24. 40% EMSU water supply well #461 & 60% State F #3	0.2	
25. 90% EMSU water supply well #461 & 10% State F #4	0.0	
26. 60% EMSU water supply well #461 & 40% State F #4	0.0	
27. 50% EMSU water supply well #461 & 50% State F #4	0.0	
28. 40% EMSU water supply well #461 & 60% State F #4	0.3	

*No sample submitted at this mixture. We did not consider it necessary to make an extra mixture of these waters because of the absence of any detectable barium sulfate in the other combinations.

<u>Mixture of Waters</u>	<u>Precipitated Barium Sulfate</u>	
	<u>as BaSO₄, mg/l</u>	
29. 90% EMSU water supply well #461 & 10% State K #1	0.0	
30. 60% EMSU water supply well #461 & 40% State K #1	0.0	
31. 50% EMSU water supply well #461 & 50% State K #1	0.0	
32. 40% EMSU water supply well #461 & 60% State K #1	0.0	

Remarks: The above results clearly need to be qualified. We have reported the results acquired, but our detectable limits are estimated to be approximately 0.5 mg/l; and when we get a reading below that level, we do not consider it conclusive evidence that any barium sulfate is present. Therefore, only a single sample herein showed what we consider to be a reasonable quantity of barium sulfate in the mixed waters. This was 3.4 mg/l that was detected in the combination of 40 percent of well #460 and 60 percent of State "F" #3. It is our carefully considered conclusion that these results do not indicate any significant incompatibility between the waters that were mixed herein. We would only consider it advisable to maintain some observation over conditions in a system handling the mixture of these waters for the possibility of any barium sulfate deposits or precipitates. We do not consider the results to indicate that any of the waters mixed herein are actually sufficiently incompatible to prevent their mixing.



Waylan C. Martin, M.A.

**NORTH MONUMENT GRAYBURG/SAN ANDRES UNIT
ATTACHMENT VIII TO FORM C108
APPLICATION FOR AUTHORIZATION TO INJECT WATER**

**GEOLOGIC DATA
FRESH WATER AQUIFERS
IN THE AREA OF THE
PROPOSED UNIT**

The proposed North Monument Grayburg/San Andres Unit is located approximately 10 miles southwest of Hobbs, New Mexico and encircles the small community of Monument.

Fresh water zones within the proposed unit area boundaries are the Quaternary alluvium, Pliocene Ogallala, and the Triassic Chinle and Santa Rosa formations.

The Quaternary aquifers are in recent unconsolidated to semiconsolidated, fine to medium-grained sands of localized extent. They are made up of dune very localized sands and channel or fill sands in the underlying Ogallala at depths of approximately 100 feet from the surface.

The Pliocene Ogallala aquifer is a calcareous, unconsolidated sand containing some silt, clay, and gravel which underlies the Quaternary alluvium and is present across the entire area, and is the principle source of fresh water in the area. The Ogallala is found at approximately 60-125 feet.

The Triassic Chinle and Santa Rose aquifers, which are also significant fresh water-bearing zones in this area, are both fine to medium-grained sandstones interbedded with red clays and siltstones. Within the proposed unit area, the Chinle is approximately 500 feet deep. The Santa Rosa is about 650 feet deep.

Below the Santa Rose and the undifferentiated "red beds" is the Permian Rustler Formation, that has an impermeable anhydrite bed about 65 feet thick which provides a barrier against contamination from brine waters in oil-producing formations below. The Rustler anhydrite is found at depths of approximately 1,250 feet. No known fresh water horizons occur below the Rustler anhydrite.

For the protection of all fresh water zones within the unit boundary, cement will be circulated to surface around casing on all new wells.

NORTH MONUMENT GRAYBURG/SAN ANDRES UNIT
ATTACHMENT VIII TO FORM C108
APPLICATION FOR AUTHORIZATION TO INJECT WATER

GEOLOGICAL DATA
THE INJECTION ZONES

Grayburg - Approximate depth 3,250-4,000 feet; approximate thickness is 375 feet. Local depth depends on both the structure position and surface elevation of the well.

The Grayburg is a heterogeneous sequence of interbedded dolomitized mudstones, wackestone, packstones and grainstones as well as silty and sandy dolomite. Much of the oil and gas production comes from intercrystalline porosity in the dolomite.

The top of the Grayburg ranges in depth from 3,250' to 4,000'. Along the western margin of the unit area the Grayburg top is at the deeper part of the above range, while in the eastern portion of the unit the shallow portion of the range. The top of the Grayburg is the top of the unitized interval.

San Andres - Approximate depth 3,620-4,220 feet; approximate thickness is 1,000 feet. Local depth depends on both the structure position and surface elevation of the well.

The San Andres is a massive thick dolomite with some interbedded intervals of silt and sand. The contact between the Grayburg and San Andres is not clear because no consistent marker can be traced over the area. An unconformable contact is possible. While the San Andres does contribute some oil production to the field, it will be the primary source of injection water. The base of the San Andres is the base of the unitized interval.

No known faults cut through the San Andres and Grayburg that may act as conduits for gas, oil or injection fluids to seep into fresh water aquifers above the injection zone within the Grayburg and San Andres.

NORTH MONUMENT GRAYBURG/SAN ANDRES UNIT
ATTACHMENT IX TO FORM C108
APPLICATION FOR AUTHORIZATION TO INJECT WATER

PROPOSED STIMULATION PROGRAM
FOR A
TYPICAL INJECTION WELL

CASED HOLE COMPLETION

It is proposed to selectively perforate the cased hole interval from approximately -100 feet to -350 feet subsea and then open this interval by acidizing with approximately 3,000 gallons of 15% Hydrochloric Acid.

OPEN HOLE COMPLETION

Open hole completions will be cleaned out to total depth, deepened if necessary to approximately -350 feet subsea and acidized with approximately 3,000-5,000 gallons of 15% Hydrochloric Acid.

NORTH MONUMENT GRAYBURG/SAN ANDRES UNIT
ATTACHMENT X TO FORM C108
APPLICATION FOR AUTHORIZATION TO INJECT WATER

PROPOSED WATER INJECTION WELLS WITH NO LOGS AVAILABLE

Logs on all proposed injection wells are filed with the Oil Conservation Division with the exception of the four wells listed below:

<u>OPERATOR</u>	<u>CURRENT LEASE NAME</u>	<u>WELL NO.</u>	<u>PROPOSED WELL NAME</u>	<u>UNIT WELL NO.</u>
CHEVRON USA INC.	GRAHAM STATE NCT C	6	NMG/SAU	9-15
CHEVRON USA INC.	W. A. WEIR NCT A	2	NMG/SAU	13-1
AMERADA HESS	STATE V	1	NMG/SAU	14-1
AMERADA HESS	J. W. COOPER A	1	NMG/SAU	23-3

R 37 E



● WATER WELL
LOCATION
***** PROPOSED UNIT BOUNDARY

WATER SAMPLING POINTS

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Eric Haas
P. O. Drawer "D", Monument, NM 88265

LABORATORY NO. 990227
SAMPLE RECEIVED 9-27-90
RESULTS REPORTED 10-1-90

COMPANY Amerada Hess Corporation LEASE

FIELD OR POOL _____

SECTION 18 BLOCK SURVEY T19S & R-37E COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

No. 1 Raw water - taken from Windmill #1.

NO. 2 _____

NO. 3

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0015			
pH When Sampled				
pH When Received	7.17			
Bicarbonate as HCO ₃	239			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	246			
Calcium as Ca	81			
Magnesium as Mg	11			
Sodium and/or Potassium	40			
Sulfate as SO ₄	62			
Chloride as Cl	52			
Iron as Fe	0.08			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	485			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen.				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	17.20			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.8			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

By Ronnie Tucker
Ronnie D. Tucker, B.S.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Eric Haas
P. O. Drawer "D", Monument, NM 88265

LABORATORY NO. 990229
SAMPLE RECEIVED 9-27-90
RESULTS REPORTED 10-1-90

COMPANY Amerada Hess Corporation LEASE

FIELD OR POOL _____

SECTION 9 BLOCK _____ SURVEY T-20S & R-37E COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from Windmill #3.

NO. 2 _____

NO. 3

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0022			
pH When Sampled				
pH When Received	7.38			
Bicarbonate as HCO ₃	393			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	398			
Calcium as Ca	121			
Magnesium as Mg	23			
Sodium and/or Potassium	170			
Sulfate as SO ₄	150			
Chloride as Cl	206			
Iron as Fe	0.32			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	1,063			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	7.05			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	0.7			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Eric Haas
P. O. Drawer "D", Monument, NM 88265

LABORATORY NO. 990230
SAMPLE RECEIVED 9-27-90
RESULTS REPORTED 10-1-90

COMPANY Amerada Hess Corporation LEASE

FIELD OR POOL _____

SECTION 19 BLOCK SURVEY T-19S & R-37E COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from Windmill #4.

NO. 2

NO. 3

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0017			
pH When Sampled				
pH When Received	7.26			
Bicarbonate as HCO ₃	256			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	364			
Calcium as Ca	123			
Magnesium as Mg	14			
Sodium and/or Potassium	82			
Sulfate as SO ₄	82			
Chloride as Cl	175			
Iron as Fe	0.04			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	732			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	9.83			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.5			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

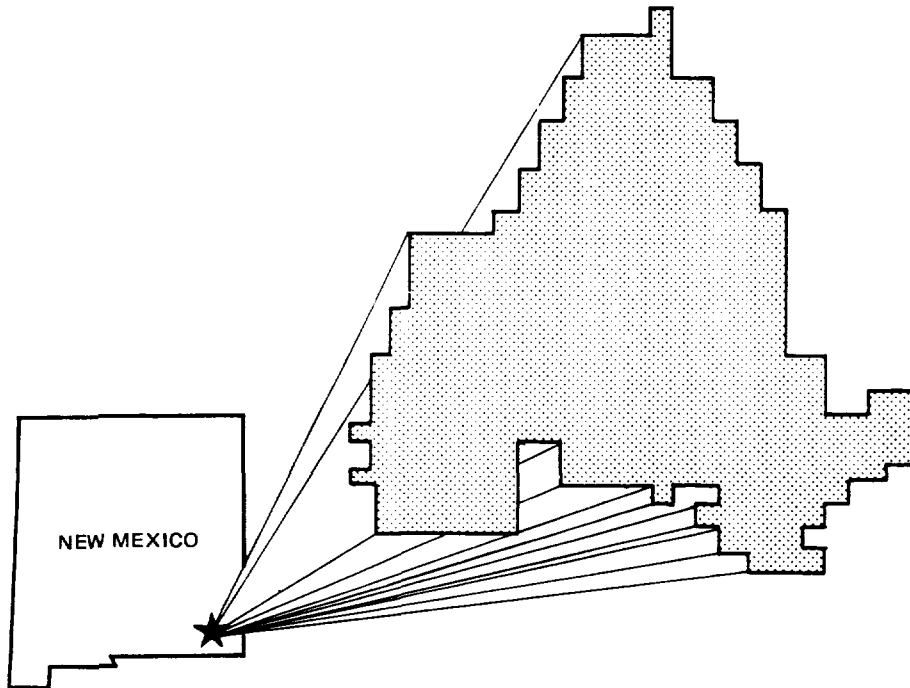
NORTH MONUMENT GRAYBURG/SAN ANDRES UNIT
ATTACHMENT XII TO FORM C108
APPLICATION FOR AUTHORIZATION TO INJECT WATER

PROPOSED NORTH MONUMENT GRAYBURG/SAN ANDRES UNIT
LEA COUNTY, NEW MEXICO

Amerada Hess Corporation has examined available geological and engineering data and finds no evidence of open faults or any other hydrologic connection between the injection zone and any underground source of drinking water.

**APPLICATION FOR AUTHORIZATION
TO INJECT WATER
FOR SECONDARY RECOVERY**

**NORTH MONUMENT GRAYBURG /
SAN ANDRES UNIT
LEA COUNTY, NEW MEXICO**



SEPTEMBER 19, 1991

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION

~~ALBERTA HES~~ EXHIBIT NO. 6

CASE NO. 10252

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☒ no

II. Operator: Amerada Hess Corporation

Address: P.O. Box 840, Seminole, Texas 79360

Contact party: J. E. Almrud

Phone: 915/758-6738

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.

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

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

Name: J. E. Almrud

Title: Manager, Regional Technical Serv.

Signature: James E. Almrud

Date: August 2, 1991

* 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.