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 Dallas, Texas
 75240

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 Fx 972.960.1252
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November 3, 2003

NMOCD 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Attn : Mr. David Catanach

RECEIVED

NOV 4 2003

# Oil Conservation Division

RE: Application for Authorization to Inject Water Grayburg-Jackson Waterflood Project Seven Rivers Formation Sections 19 & 20, T-17-S, R-31-E Eddy County, New Mexico

Dear Mr. Catanach,

Merit Energy Company respectfully submits the revision you requested, of its recent C-108 application for the Grayburg-Jackson waterflood. I am sure you will find this version easier to work with!

Merit respectfully requests that this application approved administratively at the earliest possible convenience so that operations can be advanced in a prudent manner. If you have any additional questions concerning the application, please contact me at (972) 628-1579.

Sincerely,

Jason Wacker Petroleum Engineer

#### WELL LISTING HALF MILE AREA OF REVIEW GRAYBURG JACKSON WATERFLOOD SEVEN RIVERS PILOT PROJECT

WELL NAME	WELL	+ LOCATION	TD	SPUD DATE	COMPLETION	CURRENT	TYPE OF COMPLETION	DEPTHS	IP	BRIDGE PLUG	TEMPORARILY ABANDONED DATE	P&A DATE	FFFT # OF	12 3/4		11 3/4" FFT #0	F	#OF	9 5/8		8 5/8" FFT #0		8 1/4" # OF	FFFT	# OF SXS	5 1/ FEET	# OF SXS	FEET # OI SXS	FFFT	# OF SXS	S T
FREN OIL CO					DATE	STATUS			(BOPD)	DEPTH	ABANDONED DATE	P&A DATE	FEET SXS	FEEI	SXS	SX:	S FEEL	SXS	FEEI	SXS	EET S	IS FEE	SXS			FEEI	SXS	FEEI SXS	FEEI	# UF 5A5	1
FREN UIL CU	4	19 17S 31	2,054	12/8/43	1/21/44 12/18/58	P&A	OPEN HOLE	1845-2052	160												480 6	0	_	1,845		2 170	95			+!	+
					5/14/64		PERFORATE PERFORATE	3020-3152 2722-3152		3170					-+		+			-						3,178	85			+	+
					7/8/77		P&A	2722 5152		5110		7/8/1977					-					-						_	1		1
REN OIL CO	6	19 175 31	E 2,020	8/10/46	9/9/46	P&A	OPEN HOLE	1818-2020	106	Concernant of the											500 7	5		1,818	150						
		1.000	10.00	Section 1	2/20/64		DEEPEN & PERFORATE	2911-3546																				3,643 295			4
FREN OIL CO	9	19 178 31	3.445	2/5/47	10/13/75 4/28/47	P&A	P&A OPEN HOLE	2595-3121	41			10/13/1975									506 5	0		2,595	150						-
			-,		11/25/55	Itter	OT EN HOLE	2393-3121	41												506 5		-	2,393	150	2,950	125		-		+
					11/17/76		P&A					11/17/1976																			
FRIESS, MAX	3	30 17S 31	E 3451	7/1/57	8/13/57	P&A	PERFORATE	2908-3274	264								586	100						3,451	100						
			1		2/22/60 5/20/62		PERFORATE	3379-3392			5/00/10/20											_									-
					8/3/78		PERFORATE P&A	3382-3396			5/20/1962	8/3/1978																			-
TURNER A	16	19 17S 31	E 1,927	3/2/44	4/29/44	P&A	OPEN HOLE	1876-1927	60			0/5/15/10												491	50	1,876	100			-	-
					9/28/85		SET CIBP			1844	9/28/1985																				
TURNER A	17	10 170 211	1.005	0/00/44	6/21/86		P&A					6/21/1986																			
IURNERA	17	19 17S 31	1,965	8/29/44	10/22/44 10/12/85	P&A	OPEN HOLE P&A	1847-1965	95			10/10/1005												493	50	1,847	100				4
TURNER A	20	19 17S 31	1,935	4/16/48	6/8/48	P&A	OPEN HOLE	1866-1935	15			10/12/1985												510	50	1,866	100		-		-
					3/2/76		P&A					3/2/1976					1						-	510		.,000					1
TURNER A	21	19 178 31	1,932	10/10/48	11/29/48	P&A	OPEN HOLE	1855-1932	10												500 3	0				1,855	75				
TURNER B	14	20 178 311	2115	6/15/44	2/24/76	De 4	P&A	1040 2115	6.			2/24/1976				and and and				1. 11 A									4		4
A UNITER D	14	20 175 31	2,113	0/13/44	8/16/44 3/16/76	P&A	OPEN HOLE P&A	1940-2115	85			3/16/1976											-	556	50	1,940	100			+	+-
TURNER B	26	20 178 311	2,010	10/15/47	1/2/48	P&A	OPEN HOLE	1932-2010	20			5/10/19/0				New York	-	-						536	50	1,932	100				1
					3/13/76		P&A					3/13/1976														-,					
TURNER B	27	20 175 311	2,034	10/22/47	12/31/47	P&A	OPEN HOLE	1939-2034	12													52	7 50			1,939	100				1
TURNER B	28	20 175 311	1.949	4/22/48	3/11/76 6/8/48	P&A	P&A OPEN HOLE	1873-1949	15			3/11/1976												511	50	1 972	100				-
		1.0 51		1,22,10	3/8/76	Ida	P&A	1073-1949	15			3/8/1976			-									511	50	1,873	100				1
TURNER B	70	20 178 311	7,200	8/12/60	9/9/60	P&A	PERFORATE	7042-7058	356			5.61270								1	,600 90	00						7,200 1,30	0		
THONED D	50	20 170 211	10714	2/02/50	1/28/71		SET CIBP			7000	1/28/1971																				
TURNER B	58	29 17S 31I	13/14	7/27/59	1/7/60 10/12/71	DRY	PERFORATE	9763-9765			1/7/1960	10/10/1071	230 300						3,825 2	,508						9,900	150				
FREN OIL CO	10	19 17S 311	2.034	1/6/47	1/31/47	P&A	P&A OPEN HOLE	1780-2034	85			10/12/1971								-	494 7	5		1,780	120				-		-
					1/7/64		DEEPEN & PERFORATE	2925-3248	05			1 1			-		-			-	124 /		-	1,700	150			3,308 225			1
					6/9/82		PERFORATE	3116-3171																							
RIESS FEDERAL	-	10 178 211	1.070	7/17/44	11/21/01		P&A					11/21/2001														_					
MIESS FEDERAL	1	19 17S 31I	1,970	7/17/44	9/1/44 6/23/55	P&A	OPEN HOLE	1804-1970	85													470	0 50	1,804	100	0.001					
					1/27/67		DEEPEN OPEN HOLE DEEPEN OPEN HOLE	2981-3110 3255																		2,981	45		-		
		A State State			7/5/72																										
							PLUG BACK & CONV. TO INJ.	3122									1 200	1.10													
				Same and	4/22/82		PERFORATE	2850-2900	A				an the former																		1
					7/19/82 12/3/01	-	CLEAN OUT P&A					12/3/2001									1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -			17 N. 18							
FRIESS	1	30 17S 31E	2,058	9/15/42	4/15/44	OIL	OPEN HOLE	1887-2058	150			12/3/2001					0.0					513	3 50	1.887	100				-	-	
	-				6/27/56		DEEPEN OPEN HOLE	3232																1,001	100						
IESS FEDERAL	-	20 170 211	0.570		3/3/81		PERFORATE	2050-2056														_									
CEDAR LAKE		30 17S 31E 30 17S 31E		6/14/58	N/A 7/25/58	OIL	NO RECORD	2025 225/	150																150						4
	51	50 175 511	3,443	0/14/38		UIL	PERFORATE & FRAC	2835-3256	150								518	360		-		-		3,423	150		$\vdash$		2 3/8" @		+
					3/30/87		CLEAN OUT & INSTALL TBG																						3380		
TURNER B	13	20 17S 31E	2,051	5/29/44	8/13/44	P&A	OPEN HOLE	1891-2051	91															534	50	1,891	100				
TURNER B	14	20 17S 31E	1.040	8/31/44	10/20/86	De l	P&A	1072 1015				10/20/1986	- 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 199																4		
- UNITER D	13	20 113 315	1,949	0/31/44	11/4/44 10/10/86	P&A	OPEN HOLE P&A	1875-1949	100			10/10/1096					-					510	0 50	1,875	100		+			+	+
TURNER B	16	20 17S 31E	1,974	11/2/44	12/31/44	P&A	OPEN HOLE	1876-1974	60			10/10/1986									536 5	0		1,876	100						1
				10 M	8/22/85		SET CIBP			1850	8/22/1985													.,070	100						
TURNER B	17	20 170 217	2.04	11/10/11	7/3/86		P&A					7/3/1986										1									
IUNILEKB	1/	20 17S 31E	2,046	11/12/44	2/1/45 11/12/86	P&A	OPEN HOLE	1945-2046	75			11/10/1004												600	50	1,945	100				-
OTATE BU		10 170		0.00			P&A	2980-3023 / 3056-				11/12/1986									-			-					-	-	
STATE BK	2	19 17S 31E	2,014	8/24/66	8/24/66	P&A	PERFORATE / OPEN HOLE	3568				Sec. Sec.									495 5	0		1,851	110	3,056	65				
OTATE		10			5/22/02		P&A		-			5/22/2002													1. C. C.						1
STATE BK	4	19 17S 31E	1,998	6/4/47	7/18/47	P&A	OPEN HOLE	1906-1982													505 5	0				1,906	75				
STATE BK	6	19 17S 31E	7.090	9/20/62	11/17/99 11/6/62	P&A	P&A PERFORATE	7034-7046				11/17/1999			_						252 00	0		-				7.000 07		-	-
					1/1/01	IGA	PERFORATE P&A	1034-7040				1/1/2001								1	,252 20							7,088 870		1	-
FREN OIL CO	16	19 17S 31E	7,067	8/24/61	9/16/61	P&A	PERFORATE	6972-6998	80			111,2001								1	,503 55	0				7,067	1,050				T
					1/14/71		SET CIBP			6918	1/14/1971									ľ											
					6/3/80		SET CIBP			6750																					-
		10 176 210	7.025	12/11/61	3/4/96 1/1/62	P&A	P&A PERFORATE	6928-6982	450			3/4/1996					-				,489 40	0						7,029 675			+
REN OIL CO	17	19 1/5 SIE					TENONATE	0720-0902	430			States and the second states and the	and the second se	A REAL PROPERTY AND A REAL	Contraction of the	COMPANY OF COMPANY	EVAN CANADA STREET	1000000000000000			,409 4(	V		A DESCRIPTION OF THE OWNER	CONTRACTOR NO.		A COLUMN TWO IS NOT	1,029 013	And a second state of the		AND DESCRIPTION
REN OIL CO	17	19 17S 31E	7,035		1/19/71	F	SET CIBP		1000 (D. 1000)	6875	1/19/1971																				

																				8 1/4		-	51	-+	4 1/2"		2 7/8"	
																												т
REN OIL CO	19	19 17S 31E	7,100	3/12/62	4/2/62	OIL	PERFORATE	7026-7095	182										1,391 67	5					7,100 1,	935	+	2
					4/22/80		PERFORATE & SQUEEZE (700 SXS)	2320, 1800 & 1415																	,,	-	+	
	_						01107							_					_		_							
		10 170 217	7.115	5/07/20	4/27/93	P&A	PERFORATE PERFORATE	6866-7019 6928-7086	226					10000			1 424	750			-	-	-		_			
REN OIL CO	20	19 17S 31E	1,115	5/21/62	6/17/62	Paa	PERFORATE & SQUEEZE	2110 & TOC @	220								1,43	750						+	7,113 1,1	200		-
					1/16/71		(1250 SXS)	1910		6868	1/16/1971																	
					3/25/80	The second	CLEAN OUT																					
					5/28/80		SET NEW BP & PERFORATED			2308									Sec.									
			- ALE OF							2300												1.18						
					3/29/96		P&A	4641 4072	22			3/29/1996																
EE FEDERAL		20 17S 31E		8/15/98	5/21/99	OIL	PERFORATE PERFORATE	4641-4973 4670-5038	23 16				450	450		State of the local division of			442 40 1,368 70			_	5,274					
EE FEDERAL EE FEDERAL	7	20 17S 31E 20 17S 31E	5,170	7/27/99 N/A	11/27/99	OIL	PERFORATE	4070-5050	10				430	450					1,308 /0				5,165	1,235				4
EE FEDERAL	8	20 17S 31E		N/A		LOC		and the second second																				-
EE FEDERAL	10	20 17S 31E	5,231	4/29/01	7/13/01	OIL	PERFORATE	4642-5042	27				453						1,367 65				5,231	1,250				-
EE FEDERAL		20 17S 31H		4/9/03	5/29/03	OIL	PERFORATE	4628-4948			1		317						1,351 57				5,190					
TURNER B	65	20 17S 31E	7,497	3/25/60	5/19/60	P&A	PERFORATE	7120-7152	288				477	795		_		1	3,800 3,30	0				7	7,497 50	00		4
					2/4/62		PERFORATE & SQUEEZE	7122-7128																				
							(DRILL CMT OUT TO 7130') SET CIBP			6963	1/21/1971							++			_		-			_		
	-				1/21/71 11/18/83		CLEAN OUT & TEST			0705	1. all 1971													$\vdash$			+	
					8/27/99		P&A					8/27/1999											1		-+-		+	-
FREN OIL CO	1	19 17S 31H	2,040	6/25/43	8/21/43	SHUT-IN	OPEN HOLE	1850-2030	44												507	50	1,850	100				1
	-				8/20/71						8/20/1971											19 12 13					1	1
FREN OIL CO	2	19 17S 31I	1,991	10/2/43	11/29/43	TA	OPEN HOLE	1821-1991	72										460 50	1	1,82	1 100						
					3/30/50		PERFORATE	1942-1989										+		+	_	-				_		
					12/22/54		DEEPEN & OPEN HOLE COMPL.	3065-3116															3,065	75				
					7/3/72		DEEPEN & CONV. TO INJ.	3181				-				1 1							1				+'	
	-				2/27/02		SET CIBP			3010	2/27/2002											-					+'	
FREN OIL CO	3	19 17S 31I	2,002	3/12/44	4/15/44	SHUT-IN	OPEN HOLE	1802-2002	145	e men				NUMBER OF STREET	a sector and		States and		482 50		1,802	2 100						
		Section 19		3/12/44	7/1/55		DEEPEN	3134	N. Conserver									1 10 10					3,074	80				
					8/9/72	Constant of the second	PLUG BACK (3100')&	2950-3044				and the second second											and the second					
	-	10 100 010	0.000	1/07/44		CHUT IN	PERFORATE		152										105 50		and the states							
FREN OIL CO	5	19 178 311	2,023	1/27/44	2/25/44 8/20/71	SHUT-IN	OPEN HOLE	1806-2023	152		8/20/1971								485 50		1,800	100			_	_		
	-				11/19/46		OPEN HOLE	1809-2023	83		0.201771	-							452 75		1,809	130					<u>+</u> /	<b>-</b>
					8/20/71		TA				8/20/1971										1,00	150		-+				<b> </b>
FREN OIL CO	7	19 17S 311	2 2 2 1 2	10/19/46	12/12/63	INJ	DEEPEN (3100') &	2844-3071																				
FRENOILCO		19 113 511	3,512	10/13/40	and the second second	1.13	PERFORATE			CAN'T THE R.														3.	,094 15	0		2,
		No Sec.			5/30/80		CEM. 4 1/2" - 7"	2486-SURFACE															100					
					12/3/97		PERFORATE & CONV. TO INJ. WELL	2820-2992																		2 3/8" @		
FREN OIL CO	8	19 17S 311	1 979	11/27/46	12/28/46	INJ	OPEN HOLE	1792-2021	60										505 75		1 702	130			-	2749		-
TREATOR		17 110 51	1,515				DEEPEN (3615') &												505 15		1,192	150						F
				11/27/46	4/30/64		PERFORATE	2755-3562																3,	,578 46	5		6
					3/24/76		P&A					3/24/1976		_														-
					12/3/97		PERFORATE & CONV. TO INJ.			3320																2659 OF 2		
TREN OF CO		10 170 211	2 2 0 4 2	E IA IAT		CHIPT IN	WELL OPEN HOLE	3076 1809-2042	42										120 50		1.000				_	3/8"		
FREN OIL CO	11	19 178 311	2,042	5/4/47	6/4/47 10/1/71	SHUT-IN	SHUT-IN, UNECONOMIC	1809-2042	42	Chief and the second second	10/1/1971								438 50		1,809	130						
FREN OIL CO	12	19 17S 31	E 3,141	12/14/54	2/11/55	INJ	OPEN HOLE	3080-3141	630										499 50		3.080	125						
			-,				DEEPEN (3200') &	3060-3070													5,080	125						
					6/8/82		PERFORATE	3000-3070																				
					12/3/97		PERFORATE & CONV. TO INJ.	2785-3030																		0.701		
							WELL														_					2,721		
EDEN OIL CO	12	10 170 211	2 2 226	216155	7/1/00	INJ	TEST & CLEAN OUT	3194-3255	720		-			100 C					514 75		-					_		
FREN OIL CO	13	19 17S 31	3,330	3/6/55	6/13/55	INJ	OPEN HOLE PERFORATE & CONV. TO INJ.	The second second	120										514 75	1	3,194	150	-	_		4		
					6/22/72	The speed	WELL	3153-3186																				
					6/22/82	1	PERFORATE	3044-3052																				
					9/18/92	]	CLEAN OUT	3333							States and													
					4/15/97		PERFORATE & RETURN TO	2782-3369															Section 1					
in the second					A STATE OF THE STATE OF THE STATE OF	-	INJ.		100																			
FREN OIL CO	18	19 17S 31	E 7,150	1/2/62	5/11/62	OIL	PERFORATE	7011-7022 1400-1402 & 2975	192									1,	,364 650		-			7,	120 1,20	0		1,4
					10/27/78		SQUEEZE & PERFORATE	1400-1402 & 2975 3104		3200																		
FREN OIL CO	23	19 17S 31	E 3.735	6/12/96	8/9/96	OIL	PERFORATE	2876-3269	125									1	96 350				3,734	1 475		-		_
FREN OIL CO	24	19 17S 31		7/20/96	8/20/96	OIL	PERFORATE	2745-3327	184										90 350 91 350				3,734			-		15
A CARGE CARGE CARGE	AND AND A SALES	10/10 STORE DESIGN	Section Providence					3171-3300 & 2762										100 100 L					And Contraction of the	Mangara and				C
FREN OIL CO	WI-25	19 17S 31	3,732	7/17/97	8/14/97	INJ	PERFORATE	3131		and the second second							Sector Sector	4	28 300			1000	3,731	2,325				
					9/16/97		PERFORATE & CONV. TO INJ.		100																			
							WELL	3300																				
		The second s		a state of the sta	12/16/98		SET CIBP & RETURN TO INJ.			2655	and the second second second second	Carl Contractor Contractor	1000	1293 CE 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2								1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.			1555 2551	and the second second		

#### WELL LISTING HALF MILE AREA OF REVIEW GRAYBURG JACKSON WATERFLOOD SEVEN RIVERS PILOT PROJECT

			-	_		00100	CHIERRA				BBIEGE			13 3		12 3/4		11 3/4"		3/4"	9 5/8"	OF	8 5/8		8 1/4"				5 1/2		4 1/2	0.5	2 7/8"	
WELL NAME	WELL #	LOCATIO	N	TD S	SPUD DATE	COMPLETION DATE	CURRENT STATUS	TYPE OF COMPLETION	DEPTHS	IP (BOPD)	BRIDGE PLUG DEPTH	TEMPORARILY ABANDONED DATE	P&A DATE	FEET	# OF	FEET	OF XS FI	EET # C	FEET	F # OF	FEET S	OF XS F	EET	OF FE	ET #	OF FI	EET	# OF SXS	EET	# OF SXS	FEET	OF FEE	# OF S	xs TOC
FRIESS FEDERAL	1	19 17S 3	1E 3	,521	9/18/41	4/15/42	P&A	OPEN HOLE	2719-2870	35	DEITH	ADAILDONED DATE			5745			5/		0/10						50 2,				0/10				
			_			2/16/67		CLEAN OUT	3470										_			_												
						8/13/69		PERFORATE (7" CSG	1901-1974		2431																							
			-	-+				COLLAPSE)				11/27/1072					_			-		-	-	-	-	-	-+						_	
			-	-		11/27/72 6/7/97		TA P&A				11/27/1972	6/7/1997					-	-			-	-		-	-		-	-		-			
FRIESS FEDERAL	3	19 17S 3	1E 7	.085	5/23/62	7/13/62	OIL	PERFORATE	7060-7070	984			Grintssi				CLOSED THE			N.S. C.M.S.		1	405	200	14	CON STATE			,085	850				1,454
						5/17/63		PERFORATE	6955-7046																								C. S. S. S.	
						4/5/65		SQZ ALL PERFS W/ 150 SXS &	6955-7005								22			Million	10000										NOT ST	The Section		
						4/3/03		PERFORTE	0933-7003			Strand States and A									Wattin Di									1000		and a state of	and the second	
			72			7/8/69		DRILL OUT (7095') &	6959-7095																									
						and the second second		PERFORATE	and the second		22(0				1																			
						6/23/70 8/9/85		PERFORATE SHUT-IN, UNECONOMIC	2814-3176		3269								-							-								
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#### WELL LISTING HALF MILE AREA OF REVIEW GRAYBURG JACKSON WATERFLOOD SEVEN RIVERS PILOT PROJECT

		TT												13	3/8"	12 3/4		11 3/4"		10 3/4"	9	5/8"	8	5/8"	8 1/4"		7"		5 1/2	2"	4 1/2"		2 7/8"		
WELL NAME	WELL #	# LOC	ATION	TD	SPUD DATE	COMPLETION DATE	CURRENT STATUS	TYPE OF COMPLETION	DEPTHS	IP (BOPD)	BRIDGE PLUG DEPTH	TEMPORARILY ABANDONED DATE	P&A DATE	FEET	# OF SXS	FEET #	F F	TEET # C		SAS	FEE	# OF SXS	FEET	# OF SXS	FEET #	AS		SAS	FEET	# OF SXS	FEET #	OF XS FI	EET # OI	F SXS	TOC
TURNER B	50	29	17S 31E	3,375	10/6/57	11/25/57	INJ	PERFORATE	3306-3320	205							-		59	B 100	)	-	-			3	,374	100							2,275
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						3/11/69		CONV. TO INJ. WELL			3305						-		-	-	-	-						_							
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						4/23/97		PERFORATE & CONV. TO INJ. WELL	2739-3469																										
TURNER B	89	29	17S 31E	3,800	12/30/90	1/18/91	OIL	PERFORATE	3117-3309	316								10 2				1		465					3,800						
		a Rast			and the second second	1/19/91		PERFORATE	3065-3530	165				11										465					3,800	1,500					N. S. S. Marrie
TURNER B	93	20	17S 31E	3,821	1/18/91	2/22/91	OIL	PERFORATE	2864-3681	250				452	650				_		-			700							900				
TURNER B	95	20	17S 31E	3,700	1/17/91	2/19/91	OIL	PERFORATE	2815-3551	113												-		465					3,700		235 16				
TURNER B	96		17S 31E		1/27/91	2/16/91	OIL	PERFORATE	2725-3514	134							-		_	_				700	1	_			3,752				2		
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TURNER B	115		17S 31E		2/16/99	3/16/99	OIL	PERFORATE	2696-3406	242				1						ALL BALLER			425	725	1				3,598		and the second				
TURNER B	118		17S 31E	3760	6/18/96	8/19/96	OIL	PERFORATE	2821-3517	300				-			-		_	-	-		339	350	-	_			3,759			_			
HERRY VANILLA			17S 31E		10/30/02	1/9/02	GAS	PERFORATE	11229-11236				1/15/2002		400						4,531	3,525	10000		1				11,760	1,350					A. 245.
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HOCOLATE MOOSI	E 1-Y	20	17S 31E	11,736	1/17/02	5/9/02	GAS	PERFORATE	11310-11330					440	700						4,555	2,175							11,736	1,050					St Wilson
REN OIL CO COM	21	19	17S 31E	12,299	3/27/65	6/17/65	TA	PERFORATE	6944-6996 & 11142-11218		11500			369	300						3,210	600			1	12	2,275	575							
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						1/17/81		SQUEEZE CASING LEAKS	8170-8385								_		-	-	-														
						1/31/01		TA			11980	1/31/2001	-				_		-		-	-	-			_	_	_							
						2/20/03		RE-ENTER, TA			8570	2/20/2003					_		-	_	-	-	-		-	_	_					_			
FRIESS	3	30	17S 31E	2,033	2/6/47	4/21/47	P&A	OPEN HOLE	1954-2033	40													435	50		_	27	1	1,954	100	1. The second	the second			
					100	6/7/56		P&A					6/7/1956													1000							1200		
TURNER B	75	29	17S 31E	9,900	11/6/60	1/10/61	DRY	P&A					1/10/1961										1,608	650											0

4

## MERIT ENERGY COMPANY APPLICATION FOR AUTHORITY TO INJECT GRAYBURG-JACKSON WATERFLOOD

#### VII. Proposed Operation Data

- a. Average daily injection rate is expected to be 400 BWIPD. Maximum daily injection rate is expected to be 600 BWIPD.
- b. Injection system type is closed.
- c. Average injection pressure is expected to be 600 psig. Maximum injection pressure is expected to be 800 psig.
- d. Injection water will be re-injected produced water, plus make up water from the Keel West fresh water system.
- e. N/A
- VIII. Geological Data

The proposed injection zone is the Seven Rivers formation from 1750' - 2200'. The Seven Rivers formation consists primarily of quartz sand with cementation.

Surface formation is Cretaceous and has no known source of drinking water. Additionally, there are no known underground sources of drinking water overlying or underlying the proposed injection interval.

IX. Stimulation Program

The proposed injection interval will be acidized with HCl prior to initial injection. If the daily volume of water injected into the formation is less than is required to effectively waterflood the interval, the wells may be fracture stimulated at a later date.

X. Well Logs

Well logs for existing wellbores are on file with the NMOCD. No new wellbores are planned for this project at this time.

XI. Chemical Analysis of Fresh Water

There are no known producing fresh water wells within one mile of a proposed injection well.

XII. Affirmative Statement of Open Faults

Upon examination of the available geologic and engineering data, no evidence of open faults or any other hydraulic connection between the injection zone and any underground source of drinking water was found.

XIII. Proof of Notice and Proof of Publication

The Bureau of Land Management is the surface owner. They have been notified by letter with a copy of our application.

Merit Energy Company operates the Grayburg-Jackson Unit in sections 19 & 20, T17S, R31E, Eddy County, New Mexico. Offset operators in the area of review are as follows:

Glen Plemons PO Box 113 Lovington, NM 88260

Hanson Energy R 342 S Haldeman Rd Artesia, NM 88210

Marbob Energy Corp PO Box 227 Artesia, NM 88211

OXY USA WTP Limited Partnership PO Box 4294 Houston, TX 77210

Premier Oil & Gas, Inc. PO Box 1246 Artesia, NM 88210

Each of the previous operators was provided a letter by certified mail. Proof of notice is attached.

An Affidavit of Publication from the Carlsbad Current-Argus is attached

13727 Noel Road · Suite 500 · Dallas; Texas 75240 Ph 972.701.8377 · Fx 972.960.1252 · www.meritenergy.com

August 25, 2003

**GLEN PLEMONS PO BOX 113** LOVINGTON, NM 88260

RE: Waterflood Expansion Project Gravburg-Jackson Unit Seven Rivers Formation Sections 19 & 20, T-17-S, R-31-E Eddy County, New Mexico

#### GLEN PLEMONS,

Please consider this letter as official notification that Merit Energy Company is in the process of filing applications to convert four (4) wells to injection in the Seven Rivers formation in the above referenced sections. The proposed Seven Rivers injection interval is located from 1700' - 2200' of measured depth. Initial injection rates are expected to be 200 - 400 BWIPD at a 0.35 psi/ft gradient. This application is an expansion of the existing Grayburg-Jackson waterflood project.

Our records indicate that you are a leasehold operator within one-half mile of a proposed injection well location. As an offset operator you must be notified by Merit and you must file any objections or requests for hearings of administrative applications with the New Mexico Oil Conservation Division within fifteen (15) days of receiving this notification.

Please direct any questions regarding this matter to me at 972-628-1579.

Sincerely,

COMPLETE THIS SECTION ON DELIVERY U. SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete Α. Agent (D item 4 if Restricted Delivery is desired. Print your name and address on the reverse Addresse Jason Wacker 7698 so that we can return the card to you. Date of Delivery Attach this card to the back of the mailpiece, houston Petroleum Engine or on the front if space permits. D. Is delivery address different from item 1? Yes 1. Article Addressed to: If YES, enter delivery address below: 0004 206 Glen Plemons Po Box 113 (End Res (End 3. Service Type Lovington, NM 88260 To 0230 Certified Mail Express Mail Registered Return Receipt for Merchandise Sem Insured Mail C.O.D. Stre 4. Restricted Delivery? (Extra Fee) D Yes 005 or I City 2 ୵୲ୖ୳ୖ୳ୖ୰୲୲ 2002 0510 7698 from Domestic Return Receipt 102595-01-M-2509 Augue õ

13727 Noel Road · Suite 500 · Dallas, Texas 75240 Ph 972.701.8377 · Fx 972.960.1252 · www.meritener.gy.com

August 25, 2003

### HANSON ENERGY R 342 S HALDEMAN RD ARTESIA, NM 88210

RE: Waterflood Expansion Project Grayburg-Jackson Unit Seven Rivers Formation Sections 19 & 20, T-17-S, R-31-E Eddy County, New Mexico

#### HANSON ENERGY,

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Sincerely, SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY A. Signature Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Agent Print your name and address on the reverse Address so that we can return the card to you. 5 Jason Wacker ate of Deliver Attach this card to the back of the mailpiece. Petroleum Engine WARRENHANSON or on the front if space permits. D. is delivery address different from item 12 Yes 1. Article Addressed to: 2069 D No If YES, enter delivery address below: Hanson Energy R342 S Haldeman Rd Artesia, NM 88210 1000 Service Type 0730 Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee) 7002 C Yes 2. Article Number 7002 0510 0004 2069 7667 (Transfer from service label) PS Form 3811, August 2001 **Domestic Return Receipt** 102595-01-M-2509

# MERIT ENERGY COMPANY

13727 Noel Road · Suite 500 · Dailas, Texas 75240 Ph 972.701.8377 · Fx 972.960.1252 · www.meritener.gy.com

August 25, 2003

MARBOB ENERGY CORP PO BOX 227 ARTESIA, NM 88211

RE: Waterflood Expansion Project Grayburg-Jackson Unit Seven Rivers Formation Sections 19 & 20, T-17-S, R-31-E Eddy County, New Mexico

#### MARBOB ENERGY CORP,

Please consider this letter as official notification that Merit Energy Company is in the process of filing applications to convert four (4) wells to injection in the Seven Rivers formation in the above referenced sections. The proposed Seven Rivers injection interval is located from 1700' - 2200' of measured depth. Initial injection rates are expected to be 200 - 400 BWIPD at a 0.35 psi/ft gradient. This application is an expansion of the existing Grayburg-Jackson waterflood project.

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Sincerely, SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Jason Wacker Attach this card to the back of the mailpiece, or on the front if space permits. Petroleum Engin Is delivery address different from Article Addressed to: If YES, enter delivery address below: Marbob Energy Corp Po Box ZZ7 Artesiz, NM 88211 0004 2069 (End Re (Enc Service Type Certified Mail Express Mail 0210 Registered Return Receipt for Merchandise Insured Mail C.O.D. Sert Restricted Delivery? (Extra Fee) C Yes Stn or [ 2. Article Number 2002 7002 0510 0004 2069<sup>\*</sup> 7764<sup>\*</sup> · Cit (Transfer from service label) PS Form 3811, August 2001 **Domestic Return Receipt** 102595-01-M-2509

13727 Noel Road · Suite 500 · Dallas, Texas 75240 Ph 972.701.8377 · Fx 972.960.1252 · www.meritener.gy.com

August 25, 2003

OXY USA WTP LIMITED PARTNERSHIP PO BOX 4294 HOUSTON, TX 77210

RE: Waterflood Expansion Project Grayburg-Jackson Unit Seven Rivers Formation Sections 19 & 20, T-17-S, R-31-E Eddy County, New Mexico

#### OXY USA WTP LIMITED PARTNERSHIP,

Please consider this letter as official notification that Merit Energy Company is in the process of filing applications to convert four (4) wells to injection in the Seven Rivers formation in the above referenced sections. The proposed Seven Rivers injection interval is located from  $1700^{\circ} - 2200^{\circ}$  of measured depth. Initial injection rates are expected to be 200 - 400 BWIPD at a 0.35 psi/ft gradient. This application is an expansion of the existing Grayburg-Jackson waterflood project.

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SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY Sincerely, A. Signature Complete items 1, 2, and 3. Also complete GEE Agent item 4 if Restricted Delivery is desired. Х Print your name and address on the reverse Addressee so that we can return the card to you. B. Received by (Printed Name) Attach this card to the back of the mailpiece, بالمعنية: wacker Petroleum Engir or on the front if space permits. C Yes D. Is delivery address different from item 1? 1. Article Addressed to: If YES, enter delivery address below: 0210 0004 20P3 Bick Fapiano (Endd Rest (Endo PO Box 4294 Service Type 3. Certified Mail Express Mail Tota Houston Tr 77210.4294 Registered Return Receipt for Merchandise Sent 7 Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee) Street Yes 7002 City, S. 2. Article Number or PO 7002 0510 0004 2069 7612 (Transfer from service label) S.Forr PS Form 3811, August 2001 **Domestic Return Receipt** 102595-01-M-2509

13727 Noel Road · Suite 500 · Dallas, Texas 75240 Ph 972.701.8377 · Fx 972.960.1252 · www.meritenergy.com

August 25, 2003

PREMIER OIL & GAS INC PO BOX 1246 ARTESIA, NM 88210

RE: Waterflood Expansion Project Grayburg-Jackson Unit Seven Rivers Formation Sections 19 & 20, T-17-S, R-31-E Eddy County, New Mexico

#### PREMIER OIL & GAS INC,

Please consider this letter as official notification that Merit Energy Company is in the process of filing applications to convert four (4) wells to injection in the Seven Rivers formation in the above referenced sections. The proposed Seven Rivers injection interval is located from 1700' - 2200' of measured depth. Initial injection rates are expected to be 200 - 400 BWIPD at a 0.35 psi/ft gradient. This application is an expansion of the existing Grayburg-Jackson waterflood project.

Our records indicate that you are a leasehold operator within one-half mile of a proposed injection well location. As an offset operator you must be notified by Merit and you must file any objections or requests for hearings of administrative applications with the New Mexico Oil Conservation Division within fifteen (15) days of receiving this notification.

Sincerely, SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY Complete items 1, 2, and 3. Also complete son Wachen item 4 if Restricted Delivery is desired. Agent Print your name and address on the reverse Addressee so that we can return the card to you. Jason Wacker C. Date of Delivery Attach this card to the back of the mailpiece, 9.2.00 or on the front if space permits. Petroleum Eng D. Is delivery address different from item 1? C Yes 1. Article Addressed to: If YES, enter delivery address below: 0004 2069 Premier Oil + bas POBox (246 Artesix, NM 88210 (End Service Type Certified Mail 0730 Express Mail Tot Registered Return Receipt for Merchandise Sent Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee) Str C Yes 7002 or P Article Number 7002 0510 0004 2069 7681 (Transfer from service label) PS Form 3811, August 2001 Domestic Return Receipt 102595-01-M-2509

#### August 20, 2003

Notice is hereby given that Merit Energy Company, (Attention: Jason Wacker, Operations Engineer, 13727 Noel Road. Suite 500, Dallas, Texas, 75240, 972-628-1598), is applying to the New Mexico Oil Conservation Division to inject water into four (4) wells for secondary recovery purposes in:

Sections 19 & 20 of T17S-R31E, Eddy County, New Mexico

The injection interval will be within the Seven Rivers formation at a depth form 1800 feet to 2200 feet below the surface of the earth. Maximum injection rates of 600 barrels of water per day per well at a maximum pressure of 2500 pounds per square inch are expected. Injection will be through plastic lined tubing, below a packer. The system will be closed. This work is part of an existing waterflood project.

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

State of New Mexico.

**Affidavit of Publication** 

County of Eddy, ss. **Dawn Higgins** 

being first duly sworn, on oath says:

That she is Business Manager of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

August 20	, <u>2003</u>
	, <u>2003</u>
	, <u>2003</u>
;;;	, <u>2003</u>
	, 2003
	, 2003

That the cost of publication is \$ 38.33 and that payment thereof has been made and will be assessed as court costs.

Subscribed and sworn to before me this

20th day of lu 12/13/05 10-29-05 My commission expires Notary Public

