Im Gedlie



PLEASE REPLY TO

EXPLORATION AND PRODUCTION DIVISION U. S. ONSHORE REGION P. O. BOX 25861 OKLAHOMA CITY, OKLAHOMA 73125

PHONE

405 848-9750

April 6, 1989

Working Interest Owners
Proposed K-M Chaveroo San Andres Unit
(see attached list)

Re: Minutes of Working Interest Owner's Meeting K-M Chaveroo San Andres Unit Sections 1 & 2-T8S-R33E Chaveroo Field Chaves County, NM

### Gentlemen:

A meeting of the working interest owners in the proposed K-M Chaveroo San Andres Unit was held at 10:00 a.m. on April 4, 1989 in Kerr-McGee's U. S. Onshore Region office in Oklahoma City, OK. Attachment 1 is a list of those in attendance. The meeting was requested by Kerr-McGee and was chaired by Kerr-McGee. The purpose of the meeting was to obtain agreement on Kerr-McGee's waterflood plans and on unit participation for the proposed unit.

Information was presented on the current status of wells in the project area and on analogous San Andres waterfloods in this vicinity of New Mexico. Anticipated secondary oil recovery and estimated operating costs and capital investments were presented by Kerr-McGee. Attachment 2 is a copy of data provided to the participants at the meeting. There were no objections to Kerr-McGee's waterflood plans or estimated costs. The Unit Agreement and Unit Operating Agreement were not discussed in any detail. However, it was noted that the draft agreements previously submitted to the working interest owners would be finalized after approval of the Unit Agreement is received from the New Mexico Department of Public Lands.

Possible parameters for unit participation were presented by Kerr-McGee, with the conclusion that cumulative primary oil production was a fair and equitable parameter for determining participation. Kerr-McGee made a motion that the unit participation formula be based 100% on cumulative oil production through 12-31-88. Warren American seconded the motion and it carried unanimously. Kerr-McGee stated that their target date for submission of a secondary recovery unit application to the New Mexico Commission was May 1, 1989. Bristol and Warren American

CASE NO. 9682 + 9683

were in full support of getting the unit formed and initiating secondary operations as soon as possible.

Bristol and Warren American both agreed to place a value on their interest in the Levick State "2" No. 1 and make a counterproposal to Kerr-McGee on the purchase offer Kerr-McGee made previously. Bristol and Warren American stated they should be able to do this within two weeks.

There being no further business, the meeting was adjourned at 11:30 a.m.

W. A. Walz Engineering Manager

FBC/cew

## WORKING INTEREST OWNERS PROPOSED K-M CHAVEROO SAN ANDRES UNIT

Bristol Resources Corp. Attention: Mr. Bob Key 3601 East 51st St., Suites B & C Tulsa, Oklahoma 74136

Warren American Oil Co. Attention: Mr. Paul Woodul P. O. Box 470372 Tulsa, Oklahoma 74147-0372

Kerr-McGee Corporation Attention: Mr. Wayne Walz 4005 N. W. Expressway Oklahoma City, Oklahoma 73116

### ATTACHMENT 1

# PROPOSED K-M CHAVEROO SAN ANDRES UNIT MEETING OF WORKING INTEREST OWNERS

April 4, 1989 10:00 a.m.

NAME	TELEPHONE	COMPANY REPRESENTING	LOCATION
Bob Quance Ivan D. Geddie Floyd (Beef) Chambers Dave Christian Bob Key Paul J. Woodul Tom Jewell	(405)848-9750 (405)848-9750 (405)848-9750 (405)270-3869 (918)747-9817 (918)492-8100 (918)492-8100	Kerr-McGee Kerr-McGee Kerr-McGee Kerr-McGee Bristol Resources Warren American Warren American	Oklahoma City Oklahoma City Oklahoma City Oklahoma City Tulsa Tulsa Tulsa

### ATTACHMENT 2

### AGENDA PROPOSED K-M CHAVEROO SAN ANDRES UNIT

Kerr-McGee Regional Office
10:00 a.m. - April 4, 1989

- 1. Introductory Remarks
- 2. Highlights of Kerr-McGee's waterflood feasibility study dated 7/15/88 and map of waterflood area showing current well status.
- 3. Current status of project area:
  Exhibit 1 1988 Oil, Gas & Water Production
  Exhibit 2 Proposed Unit Participation
  Exhibit 3 Summary of Oil Recovery PerformanceAnalogous Waterfloods
  Exhibit 4 Water Supply Agreement
- 4. Discuss information provided to Bristol & Warren American in Kerr-McGee's letter dated 3/20/89.
- 5. Agreement on Unit Participation.
- 6. Review of Unit Agreement and Unit Operating Agreement.
- 7. Adjustment of Investment.
- 8. Timetable for Concluding Unit Negotiations on or before 5/1/89.
- 9. Any other item concerning Secondary Recovery and Unitization.

Attachment: letter to Bristol Resources Corp. dated 3/30/89

RJQ20:lrq02

EXHIBIT 1

K-M CHAVEROO SAN ANDRES UNIT PRODUCTION FOR 1988 CHAVES COUNTY, NEW MEXICO

CUM. TOTAL THRU 12/31/88		8539 67868 102721	12018 83345 98235	36268 115211 179878 23606	184095	130167	1/098 86553 75196	38837 92594 96396 21526	100154 106316 53878 84764	6346 6346 84312 79634	139220 62548 71927	71552 16856 39690 63734
1988 TOTAL TI		500 2944	598 678 1226	709 709 7243	2206	1471	752 1226	2209 2209 1112	189 982 269 552	320 1020 733	805 1471	2548 1246 5639 9005
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CUMULATIVE THRU 12/31/87	68269	8539 67368 99777	11420 82667 97009	114502 114502 176935 22450	181889 214006 11389	129527 106694	85801 73970 73970	91509 91609 94187 20414	99965 105334 53609 84212 127904	6026 83292 78901	132347 61743 70456 6002	15610 34051 54729
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LEASE NAME, WELL	STATE F #10	#2C	#3E	#4F	#2F	#9K	۳۶٦	#81	#10N	#120	#13P	#14C

EXHIBIT 1

K-H CHAVEROO SAN ANDRES UNIT PRODUCTION FOR 1988 CHAVES COUNTY, NEW MEXICO

. TOTAL 12/31/88	64052 35776 41197	95337	85156 99550	30014 110483 107599 59431 34660	64920 94203 143487 37659	1660627 1945911 777402
CUM.	<b>E</b>			·		
1988 TOTAL	735	1226	567 567 - 917	5586 1008 1260 8199 615	5054 1174 3290 1097	15671 33717 51624
DEC.	58 62 103	88 128	59 120	268 88 139 375 59	187 187 301 155	1286 2899 3957
NOV.	60 60 87	102	388	297 84 110 355 56	176 176 120	1166 1877 3562
.100	70 63 105	119	55 DE	421 89 152 546 63	234 98 279 0	1342 3331 3327
SEP.	282	62	288 251 251	290 118 157 787 59 59	369 100 290 101	1292 3081 4658
AUG.	71 62 107	76	8 7 7 5	120 172 738 58 58	369 309	1323 2956 3813
JULY	68 62 102	98 130	120	2024 97 141 1190 70	833 92 92 92	1336 3389 8328
JUNE	99 0 66	84	131	813 90 154 1277 84	1045 100 209 100	1337 3172 6091
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1988 JAN.	71 62 71	267	000	00000	.0 107 225 81	1393 2268 2463
CUMULATIVE THRU 12/31/87	63253 35041 40053	94111 129906 37,480	84589 98633	24426 109475 106339 51232 34045 48012	59866 93029 140197 36562	1644956 1912194 725778
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LEASE NAME, WELL	STATE FU #9E 1	STATE C #18 2	#2A 2	#3H 2 #4D 1	LEVICK STATE #1G 2	

### EXHIBIT 2

# PROPOSED K-M CHAVEROO SAN ANDRES UNIT DERIVATION OF TRACT PARTICIPATION FACTORS CHAVEROO SAN ANDRES POOL PARTICIPATION

	OPERATOR	ORIGINAL	WELL		NEW UNIT	TOTAL PRIMARY RECOVERY TO 31 DECEMBER 1988	TRACT PARTICIPATION
TRACT		WELL #	LOCATION	STATUS	WELL #	BBLS	FACTOR
1	Kerr-McGee						
	State F	1D	2 8S 33E	P	02-04	68,269	
		2C	2 8S 33E	Р	02-03	67,868	
		3E	2 8S 33E	P	02-05	83,345	
		4F	2 8S 33E	P	02-06	115,211	
		5L	2 8S 33E	P	02-12	184,095	
		6K	2 8S 33E	P	02-11	130,167	
		<b>7</b> J	2 8s 33E	Ρ	02-10	86,553	
		18	2 8S 33E	P	02-09	92,594	
		10N	2 8S 33E	P	02-14	100,154	
		11M	2 8S 33E	P	02-13	84,764	
		120	2 8S 33E	P	02-15	84,312	
		13P	2 8S 33E	P	02-16	62,548	
	7	14C	2 8S 33E	P	02-03	16,856	
						=======	
						1,176,736	70.860945
					***		
2	Bristol						
	Levick STate "2"	1G	2 8s 33E	P	02-07	94,203	
						========	
						94,203	5.672738
	*						
3	Kerr-McGee						
	State C	1B	2 8S 33E	P	02-02	95,337	
		2A	2 8S 33E	P	02-01	85,156	
		3H	2 8S 33E	P	02-08	110,483	
		4D	1 8s 33E	P	01-04	34,660	
		5C	1 8S 33E	SWD	01-03	. 0	
						2222222	
						325,636	19.609220
4	Kerr-McGee						
	State FU	9E	1 8s 33E	Р	01-05	64,052	
						2222222	
						64,052	3.857097
	TOTALS					1,660,627	100.000000

RJQ:lrg01a1

EXHIBIT 3
SUMMARY OF OIL RECOVERY PERFORMANCE - ANALOGOUS WATERFLOODS

SPI BO/I	1.27 0.86 0.86 1.06		
NNDARY BO/ACRE	1,970 770 550 1,100		
ULTIMATE SECONDARY MBO BO/WELL BO/ACRE	79,000 61,700 22,000 54,200		
ULT MBO	2,367 2,654 44		
AARY BO/ACRE	1,620 870 640 1,040	2,030 2,450 1,600 2,300	2,350
MBO BO/WELL BO/ACRE	65,000 70,000 25,500 53,500	81,250 90,500 64,000 87,000	94,000
MBO MBO	1,940 3,000 51	325 1,177 64 1,566	94
PROD AREA (ACRES)	1200 3440 80	160 480 40 	40
# OF PROD WELLS	30 43 2	4 13 1 18	1.9
OPERATOR/PROJECT	FINA HORTON FEDERAL UNIT 30ASTAL STATES FLYING "M" UNIT 3HAMPLIN LAUCK-FEDERAL #29M AVERAGE:	(ERR-MCGEE STATE "C" LEASE (ERR-MCGEE STATE "F" LEASE (ERR-MCGEE STATE "FU" LEASE	RISTOL LEVICK STATE "2" LEASE SPR - 0.70 AS OF 1/1/88

JQ21: LRG02



PLEASE REPLY TO

March 20, 1989

EXPLORATION AND PRODUCTION DIVISION U.S. ONSHORE REGION P. O. BOX 25861 OKLAHOMA 73125

PHONE 405 848-9750

Bristol Resources Corporation Suites B and C 3601 East 51st Street Tulsa, OK 74135

RE: K-M CHAVEROO SAN ANDRES UNIT (PROPOSED) SECTION 1 & 2-85-33E CHAVES COUNTY, NEW MEXICO

### Gentlemen:

Reference is made to your letters of January 31, 1989 and February 2, 1989, subject as above, wherein you requested investment costs, reserves, operating costs and water supply costs for the proposed waterflood unit.

As the result of our analysis of this proposed secondary recovery project we anticipate an initial investment of \$719,000 gross, including \$187,000 for a water supply system. After waterflood response, a future investment of \$186,000 gross, is anticipated to acquire larger lift equipment. Operating costs are expected to be \$532,000 during the first year of the waterflood and total \$9,214,000 over a project life of 20 years on a non-escalated or constant dollar basis. See attachments.

The participation formula proposed for the K-M Chaveroo San Andres Unit is a simple unit formula which credits cumulative oil production (essentially ultimate primary recovery) to December 31, 1988 as 100%. On this basis, the Working Interest Owners in the SW/4 NE/4 of Section 2, located within the proposed unit area, would have a total tract participation if 5.672738%. This was based on a primary recovery for Bristol's Levick State "2" lease of 94,203 barrels of oil and a total unit primary recovery of 1,660,627 barrels of oil as of December 31, 1988. This formula is considered by Kerr-McGee to be fair, reasonable and equitable since it represents the relative contribution and quality of each tract in the proposed K-M Chaveroo San Andres Unit.

You will find attached a copy of the proposed unit agreement and unit operating agreement. Please give Floyd Chambers or Wayne Walz a telephone call at 405/848-9750 if additional information is needed. A meeting of the Unit working interest owners will be held at 10:00 a.m. on April 4, 1989, in Kerr-McGee's Regional Office, 4005 N.W. Expressway, Oklahoma City. Please so notify Chambers or Walz if you will not be able to attend this meeting.

> m. #. Zous M. H. Vaughn Vice President U. S. Onshore

MHV: IDG: 1rg

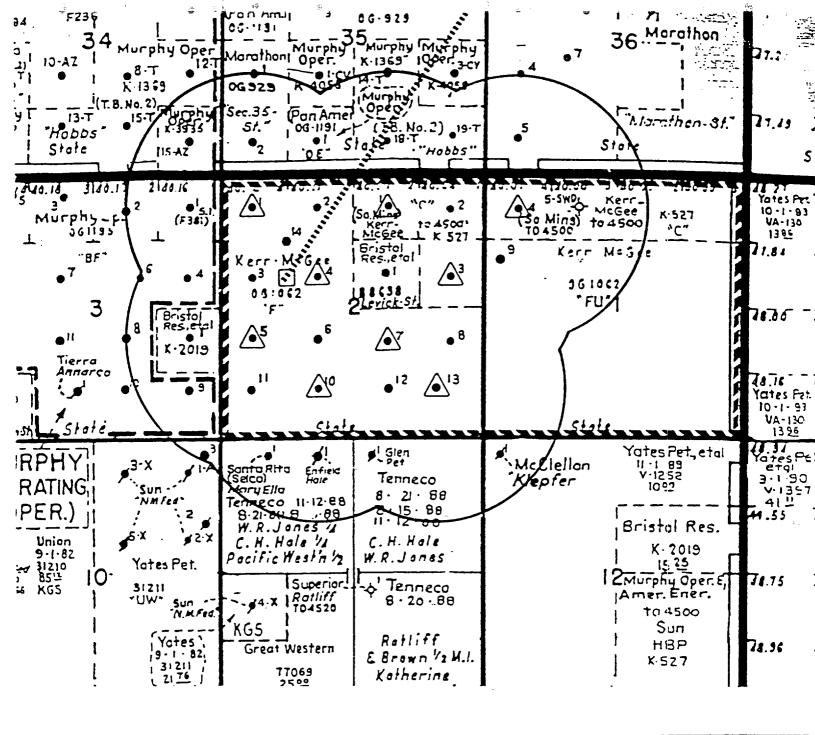
cc: Warren American Oil Company

P. O. Box 470372 Tulsa, OK 74147-0372 Attn: Mr. Stephen K. Warren

Warren American Oil Company

P. O. Box 971

Midland, Texas 79702 Attn: Mr. James O'Neill



PROPOSED INJECTION WELLS

PROPOSED INJECTION FACILITY

PROPOSED UNIT OUTLINE

PROPOSED WATER SUPPLY LINE

# KERR-MCGEE CORPORATION CHAVER & ROOSEVELT CO.'s, NEW MEXICO PROPOSED K-M CHAVEROO SAN ANDRES UNIT Scale: 1" = 2000' 'Date: 2/89 By: R. Quance

5000 Feet

I Mile

TABLE 1

ESTIMATED COSTS AT 1989 PRICES PROPOSED K-M CHAVEROO SAN ANDRES UNIT

THOUSANDS OF DOLLARS

1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTAL	00000000000000000000000000000000000000	9214	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	INJ COST*	HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	2535	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	INJ WELL AT \$10M*	000000000000000000000000000000000000000	1800	
;	PROD WELL AT \$19M*		3800	
	PURCHASED WATER AT \$.10/B	1111 1111 1117 127 127 137 137 137 137 137 137 137 137 137 13	1079	
	WATER PURCHASED MB/YR	11150 11117 1150 1777 1775 1775 1775 177	10742	
	& WATER PURCHASED	1100 1000 1000 1000 1000 1000 1000 100		0.1
	WI MB/YR	11150 11150 11150 11150 11150 11150 8051 8055 8055	21275	* TABLE 2
	WELLS	<i><b>ೲೲೲೲೲೲೲೲೲೲೲೲೲೲೲ</b></i>		
	WELLS	000000000000000000000000000000000000000		kJQ05S1:1rg01
	PROJ YEAR	10047060800100420000000000000000000000000000000		*x1005

### TABLE 2

# PROPOSED K-M CHAVEROO SAN ANDRES UNIT ESTIMATED OPERATING EXPENSE AT 1989 PRICES

Current Operating Cost \$18,600/month

Base Cost for Injector and

Producers in waterflood \$18,600/month

Less: Saltwater Disposal 350

Electricity 2,250

\$16,000/month = \$840/well/month

19 wells (10 prod + 9 inj)

<u>Injectors</u>

Operating Cost \$840/well/month (\$10,000/well/year)

Cost for Producers \$840/month/well

Plus: Pump change/year 200

Electricity at \$.10/kw-hour 550 (HP = 12)

\$1590/month/well (\$19,000/well/yr)

Injection Cost

 $HP = 3150 BPD \times 2000 psi \times .000017 = 107 hp$ 

BHP = 107 hp /0.75(Pump Efficiency) = 150 hp at \$.10/kw-hr

Electrical Cost = \$9,000/month

Costs for Water Injection = \$2,400/month

Injection Cost = \$11,400/month or \$137,000/year

RJQ15:lrg01

TABLE 3

COST OF WATER SUPPLY TO KERR-MCGEE

	Date	Cost	Result
Test Dale Brown's Wells Drill WSW "F" #1 Drill WSW "FU" #1 Drill WSW "F" #2 Drill WSW 2 Drill WSW 3	1/24-26/89 11/15-16/89 11/16-17/88 11/22-23/88 1/24-2/1/89 1/25-2/1/89	\$2,197 \$5,212 \$10,819 \$11,106 \$12,353 \$10,294	44,000 BWPO P & A Test @ 86.6 GPM P & A Test @ 13 GPM Test @ 4 GPM
	TOTAL	\$51,981	

RJQ:lrg01

### TABLE 4

## PROPOSED K-M CHAVEROO SAN ANDRES UNIT ESTIMATED COSTS

### Initial Investment

150 hp triplex pump with mounting & motor pump house Treaters & free water knockout	\$ 56,000
4' x 20' treater & 6' x 15' FWKO  18,000' 2½" (2000#WP) fiberglass pip at \$3.80/ft  9 injection packers (lok set) at \$2,500/each  Plastic coating for 9 WIW's - 4200' at \$2.00/ft  2-1000 bbl fiberglass water tanks  10,000' 3" SDR trunk lines at \$3.10/ft  Transfer pumps from tank batteries to WI station  44,500' of 4" PVC ditched & buried at \$3.50/ft  Water storage tanks  Water supply costs to drill 5 water supply wells  350 KWA transfer capacity  Miscellaneous valves, connections, chokes, etc.  Tubing inspection  Rig work - 30 days at \$1,200/day  Location work & roads  Transportation  Labor  Supervision  District overhead  Miscellaneous	21,000 68,000 23,000 76,000 30,000 31,000 32,000 156,000 10,000 12,000 14,000 13,000 10,000 25,000 10,000 6,000 7,000
-	\$719,000
Future Investment After Waterflood Response	
5-228 D pumping units with 40 hp motors 7/8" & 3/4" rods - 16,000' at \$1.50/ft 9000' of 2 3/8" tubing at \$2.80/ft Rig work - 10 days at \$1,200/day	\$125,000 24,000 25,000 12,000
	\$186,000
Total Investment	\$905,000

RJQ16:lrg01

U. S. Onshore Oper.



OCT 14 1988 E&PDIV.

EXPLORATION AND PRODUCTION DIVISION

October 13, 1988

Mr. Dale W. Brown South Star Route Box 40 Elida, New Mexico 88116

WATER AGREEMENT DATED SEPTEMBER 22, 1988

You will find attached a copy of the subject agreement which evidences execution by Kerr-McGee Corporation.

Ivan D. Geddie T-25C McGee Tower

P. O. Box 25861

Oklahoma City, OK 73125

Tel: (405) 270-2124

IDG:rgb

bcc: Phillips-Namken-CFR (Chaveroo W. F. Project)
M. H. Vaughn (information)
F. Chambers (information)
Lease Records (Original-please place of record in Roosevelt County, N.M.)

E-Br-B Hold

### WATER AGREEMENT

WHEREAS, Owner is the owner of a right to appropriate water pursuant to Permit n/a, Certificate n/a, issued by the State Engineer of New Mexico from Section(s) 8 & 9 Township  $\frac{7S}{N}$ , Range  $\frac{34E}{N}$ , Roosevelt County, New Mexico; and

WHEREAS, Kerr-McGee owns oil producing acreage in all or parts of Sections 1 & 2, Township 8 South (T8S), Range 33 East (R33E), Chaves County, New Mexico, together with additional acreage located in the vicinity thereof, and requires a reliable and adequate supply of water for waterflooding operations of the acreage; and

WHEREAS, Owner has excess water available for sale to Kerr-McGee; and WHEREAS, Kerr-McGee is agreeable to be bound by the terms and conditions of Owner's Permit n/a, Certificate n/a.

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration and the covenants herein contained, the parties agree as follows:

- 1. Owner hereby grants to Kerr-McGee, commencing on the effective date hereof, the exclusive right and option to purchase excess water from Owner, as necessary to meet Kerr-McGee's requirements for water for such waterflood operations, expected to be two thousand barrels of water per day (2000 BWPD), or more, to the extent that those requirements can be supplied out of water that can be pumped from the existing well(s) or future wells from which Owner has the right to appropriate water. For the purpose of this agreement "excess water" means water which Owner has the right to appropriate which is not required for use by Owner for Owner's domestic, agricultural and animal husbandry needs.
- 2. Unless terminated earlier, this Agreement shall be for a term of one (1) year from the effective date hereof, together with the right and option by Kerr-McGee to renew the Agreement for periods of one (1) year each upon the same terms and conditions for so long as such water is needed by Kerr-McGee for the waterflood operations described above. Upon execution of this

Agreement by Owner, Kerr-McGee shall pay Owner the sum of one-thousand Dollars (\$1,000.00) for the first year of this Agreement. If Kerr-McGee elects to extend the Agreement for additional periods, it shall deliver a notice of exercise of its option to renew to Owner and its payment of One Thousand Dollars (\$1,000.00) in consideration for the renewal period not later than the end of the initial term of this Agreement. Subsequent renewals may be made by payment to Owner of such amount on or before the expiration of the then current one (1) year period or any renewal period thereof.

- 4. Owner agrees to install a meter to measure the water sold to Kerr-McGee to provide for ±1% accuracy. Kerr-McGee shall have the right to periodically check the accuracy of metering and to require adjustments of invoice amounts. Owner agrees to submit a monthly invoice to Kerr-McGee not later than the 15th day of each month for water delivered in the preceding month and Kerr-McGee agrees to make settlement with Owner by the 15th day of the following month. Owner agrees to allow Kerr-McGee to install and service such pipeline and appurtenances as are necessary to connect and transport water across Owner's property.
- 5. Any notice required or permitted to be given hereunder shall be considered as having been properly given when and at the time the same shall have been deposited in the United States mail with postage thereon prepaid and addressed to whom the notice is given at the following specified addresses:

Kerr-McGee Corporation
Kerr-McGee Center
P. O. Box 25861
Oklahoma City, OK 73125
Attn: J. S. Onshore Region Office

Dale Brown

South Star Route

Box 40

Elida, New Mexico 88116

Either party may change its address for the purpose of this Paragraph by giving written notice to the other.

- 6. Owner hereby covenants to do all such further acts necessary for perfecting his title in and rights to the water produced from the well(s) used to provide the water purchased by Kerr-McGee. Owner and Kerr-McGee agree to execute and deliver such other additional instruments and agreements necessary to carry out this agreement between the parties.
- 7. Kerr-McGee shall have the right to terminate this Agreement at any time on written notice to Owner. Following such notice, Kerr-McGee shall have no further rights or obligations hereunder except to pay Owner for any water received by Kerr-McGee prior to such date of termination and for which payment has not been made.
- 8. This Agreement shall bind and inure to the benefit of the successors, assigns, heirs and legal representatives of the parties.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed and effective as of the day and year first above written.

KERR-MCGEE PORPORATION

BY / Cuh

DALE BROWN

Lind to Brown

Myrna L. Brown

Agno L. From

### ACKNOWLEDGEMENTS

STATE OF NEW MEXICO
COUNTY OF Roosevelt )
The foregoing instrument was acknowledged before me this 23rd day
of September , 1988, by Dale W. Brown and Myrna L. Brown, husband and wife.
Witness my hand and official seal.
My Commission Expires:  June 23, 1990
STATE OF OKLAHOMA )  SS.  COUNTY OF OKLAHOMA )
The foregoing instrument was acknowledged before me this 11th day of October, 1988, by Robert Henderson
as Vice President of Kerr-McGee Corporation, a Delaware
corporation, on behalf of the corporation.
Witness my hand and official seal.
$U_{-} = 27 - 92$