



UNIT AREA MAP

WATER FLOOD STUDY

MURPHY OPERATING CORPORATION

CHAVEROO SAN ANDRES FIELD

PROPOSED HALEY CHAVEROO SAN ANDRES UNIT

ROOSEVELT & CHAVES COUNTIES, NEW MEXICO

SCALE: 1" = 4000'

LEGEND

- PRODUCING WELL
- PLUGGED & ABANDONED WELL
- ◆ SWD WELL
- PROPOSED UNIT BOUNDARY
- 2 MILE PERIMETER AROUND UNIT BOUNDARY
- 1/2 MILE RADIUS AROUND PROPOSED INJECTORS

REDESIGNATION OF WELL NAMES
HALEY CHAVEROO SAN ANDRES UNIT
ROOSEVELT AND CHAVES COUNTIES, NEW MEXICO

- (P) - Producing
- (F) - Flowing
- (T) - Temporarily Abandoned
- (S) - Shut-in
- (I) - Injection
- (A) - Plugged & Abandoned

Tract No.	Original Well Name, Description of Land, No. of Acres & Status	Redesignated Well Name	Serial No. & Lease Date	Lessee of Record	Basic Royalty & Percentage	W.I.		Percent Unit Participation
						San Andres Production W.I. Ownership	Percent Ownership	
1.	Hobbs "U" Well #1 (P) T-7-S, R-33-E Sec. 33: SW 1/4 NEX 40.00 acres Roosevelt County, N.M.	Haley Unit Well #33-07	E-9235 8/16/55	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	
1.	Hobbs "U" Well #2 (S) T-7-S, R-33-E Sec. 33: NW 1/4 NEX 40.00 acres Roosevelt County, N.M.	Haley Unit Well #33-02	E-9235 8/16/55	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	TOTAL UNIT PARTICIPATION TRACT #1 0.661274 4.628914 5.290188
2.	Hobbs "T" Well #1 (P) T-7-S, R-33-E Sec. 33: SE 1/4 NW 1/4 40.00 acres Roosevelt County, N.M.	Haley Unit Well #33-06	K-1369 4/18/61	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	
2.	Hobbs "T" Well #2 (P) T-7-S, R-33-E Sec. 33: NW 1/4 SW 1/4 40.00 acres Roosevelt County, N.M.	Haley Unit Well #33-12	K-1369 4/18/61	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	

EXHIBIT V.

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							Percent Ownership	Percent Unit Participation
2.	Hobbs "T" Well #3 (P) T-7-S, R-33-E Sec. 33: NW 1 SE 4 40.00 acres Roosevelt County, N.M.	Haley Unit Well #33-10	K-1369 4/18/61	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	
2.	Hobbs "T" Well #4 (P) T-7-S, R-33-E Sec. 33: SW 1 SE 4 80.00 acres Roosevelt County, N.M.	Haley Unit Well #33-15	K-1369 4/18/61	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	
2.	Hobbs "T" Well #5 (P) T-7-S, R-33-E Sec. 33: SE 1 NE 4 40.00 acres Roosevelt County, N.M.	Haley Unit Well #33-08	K-1369 4/18/61	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	
2.	Hobbs "T" Well #6 (P) T-7-S, R-33-E Sec. 33: NE 1 NE 4 40.00 acres Roosevelt County, N.M.	Haley Unit Well #33-01	K-1369 4/18/61	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	
2.	Hobbs "T" Well #7 (S) T-7-S, R-33-E Sec. 34: NW 1 SW 4 40.00 acres Roosevelt County, N.M.	Haley Unit Well #34-12	K-1369 4/18/61	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	

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							Percent Ownership	Percent Unit Participation
2.	Hobbs "T" Well #8 (P) <u>I-7-S, R-33-E</u> Sec. 34: NW SE 40.00 acres Roosevelt County, N.M.	Haley Unit Well #34-10	K-1369 4/18/61	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 <u>87.500000</u> 100.000000	
2.	Hobbs "T" Well #9 (P) <u>I-7-S, R-33-E</u> Sec. 34: NW NW 40.00 acres Roosevelt County, N.M.	Haley Unit Well #34-04	K-1369 4/18/61	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 <u>87.500000</u> 100.000000	
2.	Hobbs "T" Well #10 (P) <u>I-7-S, R-33-E</u> Sec. 34: SW NE 40.00 acres Roosevelt County, N.M.	Haley Unit Well #34-07	K-1369 4/18/61	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 <u>87.500000</u> 100.000000	
2.	Hobbs "T" Well #11 (I) <u>I-7-S, R-33-E</u> Sec. 33: SE SE 40.00 acres Roosevelt County, N.M.	Haley Unit Well #33-16	K-1369 4/18/61	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 <u>87.500000</u> 100.000000	
2.	Hobbs "T" Well #12 (S) <u>I-7-S, R-33-E</u> Sec. 34: NE SE 40.00 acres Roosevelt County, N.M.	Haley Unit Well #34-09	K-1369 4/18/61	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 <u>87.500000</u> 100.000000	

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						W.I. Ownership	Percent Ownership	W.I. Ownership	Percent Ownership	
2.	Hobbs "T" Well #13 (P) T-7-S, R-33-E Sec. 34: SE X SW X 40.00 acres Roosevelt County, N.M.	Haley Unit Well #34-14	K-1369 4/18/61	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	12.500000 87.500000 100.000000		
2.	Hobbs "T" Well #15 (P) T-7-S, R-33-E Sec. 34: SW X SE X 40.00 acres Roosevelt County, N.M.	Haley Unit Well #34-15	K-1369 4/18/61	Texaco Producing, Inc.	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	12.500000 87.500000 100.000000		TOTAL UNIT PARTICIPATION TRACT #2 4.517902 31.625313 36.143215
3.	State "AZ" Well #1 (P) T-7-S, R-33-E Sec. 33: SW X NW X 40.00 acres Roosevelt County, N.M.	Haley Unit Well #33-05	K-3935 2/18/64	Sun Operating Limited Partnership	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	12.500000 87.500000 100.000000		
3.	State "AZ" Well #2 (T) T-7-S, R-33-E Sec. 33: NE X SW X 40.00 acres Roosevelt County, N.M.	Haley Unit Well #33-11	K-3935 2/18/64	Sun Operating Limited Partnership	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	12.500000 87.500000 100.000000		
3.	State "AZ" Well #3 (T) T-7-S, R-33-E Sec. 33: NE X NW X 40.00 acres Roosevelt County, N.M.	Haley Unit Well #33-03	K-3935 2/18/64	Sun Operating Limited Partnership	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	12.500000 87.500000 100.000000		

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3.	State "AZ" Well #4 (T) T-7-S, R-33-E Sec. 33: SW X SW X 40.00 acres Roosevelt County, N.M.	Haley Unit Well #33-13	K-3935 2/18/64	Sun Operating Limited Partnership	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 <u>87.500000</u> 100.000000	
3.	State "AZ" Well #5 (A) T-7-S, R-33-E Sec. 33: NW X NW X 40.00 acres Roosevelt County, N.M.	Haley Unit Well #33-04	K-3935 2/18/64	Sun Operating Limited Partnership	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 <u>87.500000</u> 100.000000	
3.	State "AZ" Well #6 (T) T-7-S, R-33-E Sec. 33: SE X SW X 40.00 acres Roosevelt County, N.M.	Haley Unit Well #33-14	K-3935 2/18/64	Sun Operating Limited Partnership	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 <u>87.500000</u> 100.000000	
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3.	State "AZ" Well #10 (S) I-7-S, R-33-E Sec. 34: NE S W 4 X 40.00 acres Roosevelt County, N.M.	Haley Unit Well #34-11	K-3935 2/18/64	Sun Operating Limited Partnership	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	
3.	State "AZ" Well #11Y (S) I-7-S, R-33-E Sec. 34: NE S W 4 X 40.00 acres Roosevelt County, N.M.	Haley Unit Well #34-03	K-3935 2/18/64	Sun Operating Limited Partnership	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	
3.	State "AZ" Well #12 (S) I-7-S, R-33-E Sec. 34: NW S NE X 40.00 acres Roosevelt County, N.M.	Haley Unit Well #34-02	K-3935 2/18/64	Sun Operating Limited Partnership	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	
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3.	State "AZ" Well #15 (T) I-7-S, R-33-E Sec. 34: SE X SE X 40.00 acres Roosevelt County, N.M.	Haley Unit Well #34-16	K-3935 2/18/64	Sun Operating Limited Partnership	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	
3.	State "AZ" Well #16 (T) I-7-S, R-33-E Sec. 34: SW X SW X 40.00 acres Roosevelt County, N.M.	Haley Unit Well #34-13	K-3935 2/18/64	Sun Operating Limited Partnership	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	TOTAL UNIT PARTICIPATION TRACT #3
4.	State "BF" Well #1 (S) I-8-S, R-33-E Sec. 3: Lot 1 40.16 acres Chaves County, N.M.	Haley Unit Well #03-01	OG-1195 8/20/57	Murphy Operating Corporation	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	4.282702 29.978916 34.261618

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4.	State "BF" Well #2 (P) T-8-S, R-33-E Sec. 3: Lot 2 40.17 acres Chaves County, N.M.	Haley Unit Well #03-02	OG-1195 8/20/57	Murphy Operating Corporation	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	
4.	State "BF" Well #3 (P) T-8-S, R-33-E Sec. 3: Lot 3 40.18 acres Chaves County, N.M.	Haley Unit Well #03-03	OG-1195 8/20/57	Murphy Operating Corporation	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	
4.	State "BF" Well #4 (F) T-8-S, R-33-E Sec. 3: SE 1 NEX 40.00 acres Chaves County, N.M.	Haley Unit Well #03-08	OG-1195 8/20/57	Murphy Operating Corporation	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	
4.	State "BF" Well #5 (A) T-8-S, R-33-E Sec. 3: Lot 4 40.19 acres Chaves County, N.M.	Haley Unit Well #03-04	OG-1195 8/20/57	Murphy Operating Corporation	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	
4.	State "BF" Well #6 (F) T-8-S, R-33-E Sec. 3: SW 1 NEX 40.00 acres Chaves County, N.M.	Haley Unit Well #03-07	OG-1195 8/20/57	Murphy Operating Corporation	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	

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4.	State "BF" Well #9 (P) T-8-S, R-33-E Sec. 3: SE X SE X 40.00 acres Chaves County, N.M.	Haley Unit Well #03-16	OG-1195 8/20/57	Murphy Operating Corporation	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000	100.000000
4.	State "BF" Well #10 (P) T-8-S, R-33-E Sec. 3: SW X SE X 40.00 acres Chaves County, N.M.	Haley Unit Well #03-15	OG-1195 8/20/57	Murphy Operating Corporation	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000	100.000000
4.	State "BF" Well #11 (P) T-8-S, R-33-E Sec. 3: NE X SW X 40.00 acres Chaves County, N.M.	Haley Unit Well #03-11	OG-1195 8/20/57	Murphy Operating Corporation	State of N.M. 12.5%	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000	100.000000

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						W.I. Ownership	Percent Ownership	W.I. Ownership	Percent Ownership	
4.	Annarco #1 (A) T-8-S ₁ R-33-E Sec. 3: SE ¹ / ₄ SW ¹ / ₄ 40.00 acres Chaves County, N.M.		OG-1195 8/20/57	State of N.M. 12.5%	Murphy Operating Corporation	Murphy Operating Corporation American Energy Capital Corp.	12.500000 87.500000 100.000000	12.500000 87.500000 100.000000		

TOTAL UNIT PARTICIPATION
TRACTS #1 THROUGH #4

MURPHY OPERATING CORPORATION
 AMERICAN ENERGY CAPITAL CORP.
 12.500000
 87.500000
 100.000000