

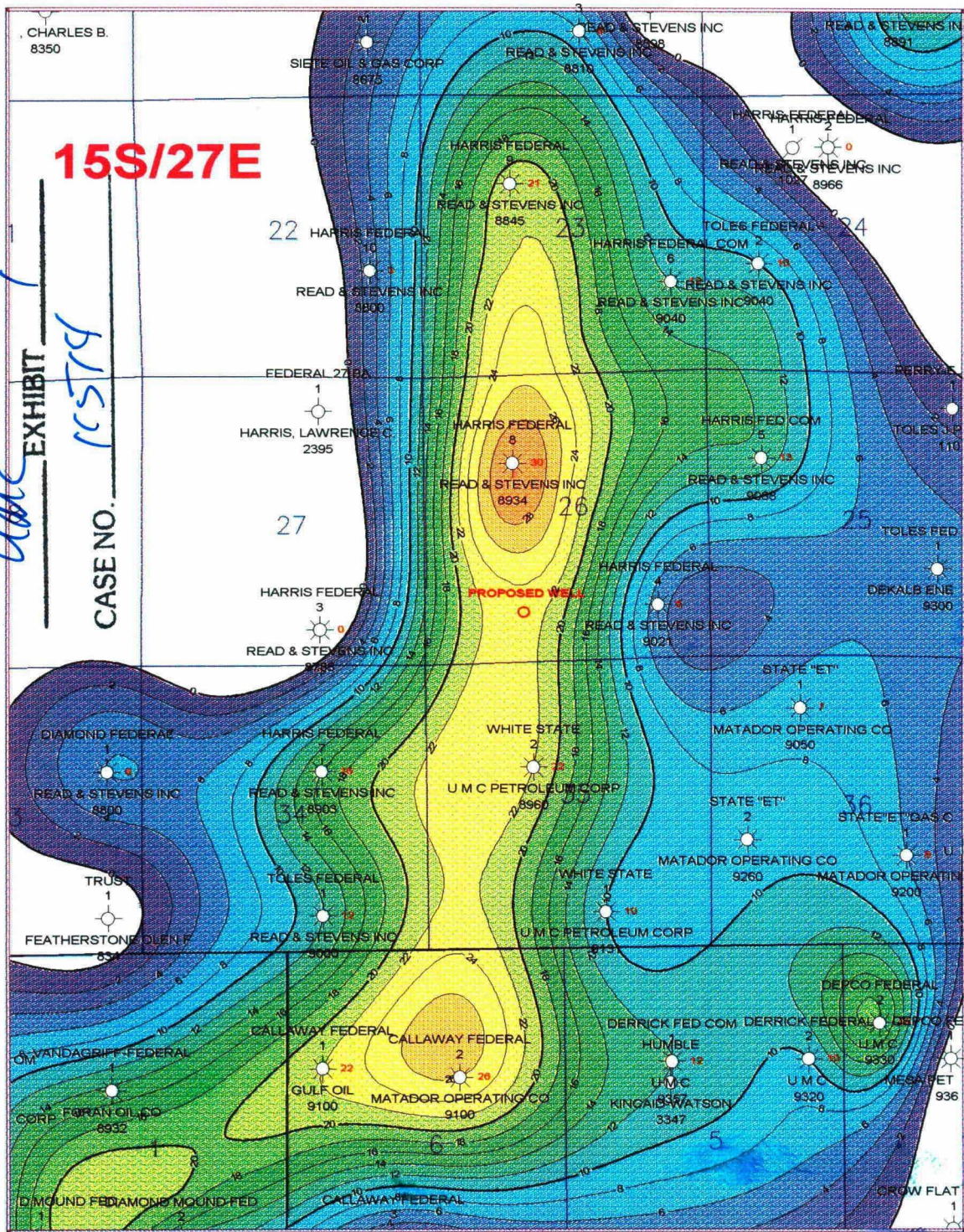


NEW MEXICO
OIL CONSERVATION DIVISION

15S/27E

EXHIBIT

CASE NO. 1579



WELL NAME
WELL #
0 NET PAY
OPERATOR
TD

UMC PETROLEUM CORP.

DIAMOND MOUND FIELD - CHAVES COUNTY, NE
NET SAND THICKNESS A-1-2 SAND

ENG: JAMESON

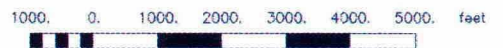
5/15/96

DRAFTED BY: AIC

GEO: SCHUETT

Scale 1:36000

Scale 1:36000





R27E

18876
PENN
5/30/1991

2655858
PENN
8/24/1985

21

22 HARRIS FEDERAL
10
1087 430727
PENN
7/16/1988

23

HARRIS FEDERAL
9
31522 5417816
PENN
10/19/1982

HARRIS FEDERAL
6
19884 3447415
PENN
3/15/1982

TOLES FEDERAL
COM 2
1635 761018
PENN
9/23/1985

24

HARRIS-FEDERAL
2
676663
PENN
4/1/1974

NEW MEXICO
OIL CONSERVATION DIVISION

EXHIBIT

CASE NO.

11514

28

27

FEDERAL 27 BA
1
5/16/1958

HARRIS FEDERAL
8
30624 5460950
PENN
8/31/1982

26

HARRIS FED COM
5
5545 1776703
PENN
4/24/1981

25

TOLES FED
1
3618
PENN
10/27/71

HARRIS FEDERAL
3
5/28/1975

HARRIS FEDERAL
4
2591 584160
PENN
11/30/1981

STATE "ET"
1
7208 1134322
ATOKA
6/10/1989

33

DIAMOND FEDERAL
1
176
MORROW
10/7/1983

34

HARRIS FEDERAL
7
2453 612255
MORROW
7/23/1982

WHITE STATE
2
35178 5422583
MORROW
8/18/1981

35

STATE "ET"
2
3138 1251503
MORROW
3/8/1989

STATE "ET" GAS CO
1
16365 3063
MORROW
8/6/1983

TRUST
1

TOLES FEDERAL
1
10452 3707484
MORROW

WHITE STATE
1
22892 3606574
MORROW

77

TE COM VANDAGRIFF-FEDERAL
1
2528713 1230 489464
MORROW/ATOKA
6/8/1972

DIAMOND MOUND FED
1
9093 1959033
MORROW
3/16/1978

DIAMOND MOUND FED
2
15475 2378071
MORROW
7/13/1978

CALLAWAY FEDERAL
1
2/18/1980

CALLAWAY FEDERAL
2
7218 1255629
MORROW
1/22/1981

6

CALLAWAY FEDERAL
3
931 388566
ATOKA/MORROW
3/14/1981

DERRICK FED COM
1
20297 2792258
MORROW
1/7/1980

5

DERRICK FEDERAL
2
42845 1860793
MORROW
4/23/1980

CROW FLAT
1
1128
MORROW
4/29

WELL NAME
WELL #
CUM OIL (BBLs) CUM GAS (MCF)
RESERVOIR
COMPLETION DATE

UMC PETROLEUM CORP

DIAMOND MOUND FIELD - CHAVES CO., N.M.
PRODUCTION BUBBLE MAP - GAS

ENGR: JAMESON

5/15/96

DRAFTED: A/C

Scale 1:36000.

Scale 1:36000.

1000 0 1000 2000 3000 4000 5000 feet

BUFFALO VALLEY / DIAMOND MOUND FIELDS

CUMULATIVE AND ESTIMATED ULTIMATE RECOVERIES

CURRENT RECOVERIES

	RATE MCFPD	CUM (3/96) MMCF	EUR (EST.) MMCF	REMAINING (EST.) MMCF
SEC. 35 <u>UMC PETROLEUM CORP.</u>				
WHITE STATE #1	381	3,671	5,166	1,495
WHITE STATE #2	694	5,573	8,438	2,865
	<u>1,075</u>	<u>9,244</u>	<u>13,604</u>	<u>4,360</u>
SEC. 26 <u>READ & STEVENS INC.</u>				
HARRIS FEDERAL #8	1,049	5,576	9,621	4,045
HARRIS FEDERAL #4	27	585	600	15
	<u>1,077</u>	<u>6,161</u>	<u>10,221</u>	<u>4,060</u>
TOTALS	2,152	15,405	23,825	8,420

NEW MEXICO
OIL CONSERVATION DIVISION

umc EXHIBIT 3
CASE NO. 11514

ESTIMATED RECOVERIES WITH PROPOSED READ & STEVENS WELL

	RATE MCFPD	% OF TOTAL RATE MCFPD	REMAINING (EST.) MMCF	CHANGE IN REMAINING RESERVES MMCF
SEC. 35 <u>UMC PETROLEUM CORP.</u>				
WHITE STATE #1	381	12.49%	1,052	(443)
WHITE STATE #2	694	22.74%	1,915	(950)
	<u>1,075</u>	<u>35.23%</u>	<u>2,967</u>	<u>(1,393)</u> (UMC WILL LOSE 1,393 MMCF)
SEC. 26 <u>READ & STEVENS INC.</u>				
PROPOSED WELL	900	29.49%	2,483	(1,562)
HARRIS FEDERAL #8	1,049	34.38%	2,895	2,895
HARRIS FEDERAL #4	27	0.90%	76	15
	<u>1,977</u>	<u>64.77%</u>	<u>5,453</u>	<u>1,348</u> (R & S WILL GAIN 1,348 MMCF)
TOTALS	3,052	100.00%	8,420	