

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

811 South First St., Artesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

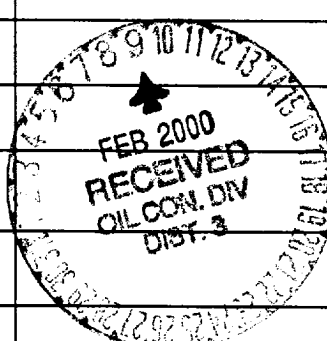
State of New Mexico
Energy, Minerals and Natural Resources Department**OIL CONSERVATION DIVISION**2040 S. Pacheco
Santa Fe, New Mexico 87505-6429Form C-107-A
New 3-12-96**APPROVAL PROCESS :**☒ Administrative
☐ Hearing**APPLICATION FOR DOWNHOLE COMMINGLING****EXISTING WELLBORE**☒ YES ☐ NO**Burlington Resources Oil and Gas****PO Box 4289, Farmington, NM 87499**

Operator	Address		
Huerfano Unit	#109	I-2-26N-10W	San Juan
Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7139 API NO. 30-045-06029 Federal ☒ State ☒ Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Angels Peak Gallup - 2170		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	5905'-6199'		6848'-6922'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Current) a. 415 psi (see attachment) (Original) b. 1343 psi (see attachment)		a. 810 psi (see attachment) b. 2350 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1157		BTU 1267
7. Producing or Shut-In?	Shut-In		Producing
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In and oil/gas/water rates of last production	Date: 11/92 Rates: 10 mcf/d		Date: N/A Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: Rates:		Date: 11/99 Rates: 61.0 mcf/d 0.35 bopd



Huerfano Unit #109 Production Allocation

Gas

*Gallup Remaining Reserves:	654.660 Mmcf	47.2%
*Dakota Remaining Reserves:	<u>733.381 Mmcf</u>	<u>52.8%</u>
Total:	1,388.04	100.0%

Condensate

*Gallup Remaining Reserves:	4,032.7 Bbls	36.5%
*Dakota Remaining Reserves:	<u>7,018.5 Bbls</u>	<u>63.5%</u>
Total:	11,051	100.0%

*Because the Gallup experienced a sharp decrease in production in 1976-77 due to liquid loading, the cumulative production from each zone cannot be used to determine the production allocation. Similarly, the pre-1976 cumulative production cannot be used to determine the allocation because the Dakota has produced at a higher rate than the Gallup since 1976, (in fact, the Gallup has not produced since 1992) and does not have as much remaining potential as it did in 1976. Current remaining reserves estimates for gas were used to calculate the above allocation. The allocation for condensate was calculated using the 1970-76 condensate yield for the Gallup (pre-liquid loading) and the post-1970 condensate yield for the Dakota.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator EL PASO NATURAL GAS COMPANY			Lease HUERFANO UNIT (E-2942-2)		Well No. 109
Unit Letter I	Section 2	Township 26-N	Range 10-W	County SAN JUAN	
Actual Footage Location of Well: 1650 feet from the SOUTH line and 990 feet from the EAST line					
Ground Level Elev. 6660	Producing Formation DAKOTA & GALLUP		Pool ANGEL PEAK GALLUP EXT. BASIN DAKOTA		Dedicated Acreage: 319.26 & 319.26 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

NOTE: THIS PLAT REISSUED TO REFLECT GALLUP PRODUCTION RECLASSIFIED AS OIL WELL. 11-26-59 NOTE: THIS PLAT REISSUED TO REFLECT GALLUP PRODUCTION RECLASSIFIED AS GAS WELL. 10-4-60 NOTE: THIS PLAT REISSUED TO REFLECT GALLUP PRODUCTION RECLASSIFIED AS OIL WELL. 8-8-78 NOTE: THIS PLAT REISSUED TO REFLECT GALLUP PRODUCTION RECLASSIFIED AS GAS WELL. 6-28-79		CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>D. P. Buses</i> Name Drilling Clerk Position El Paso Natural Gas Company June 29, 1979 Date I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed MAY 4, 1959 Registered Professional Engineer and/or Land Surveyor ORIGINAL SIGNED BY: DAVID O. VILVEN Certificate No. 1760
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0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

HUERFANO UNIT 109 5305401 (709559893302.9616) Data: Jan. 1970-Nov. 1999

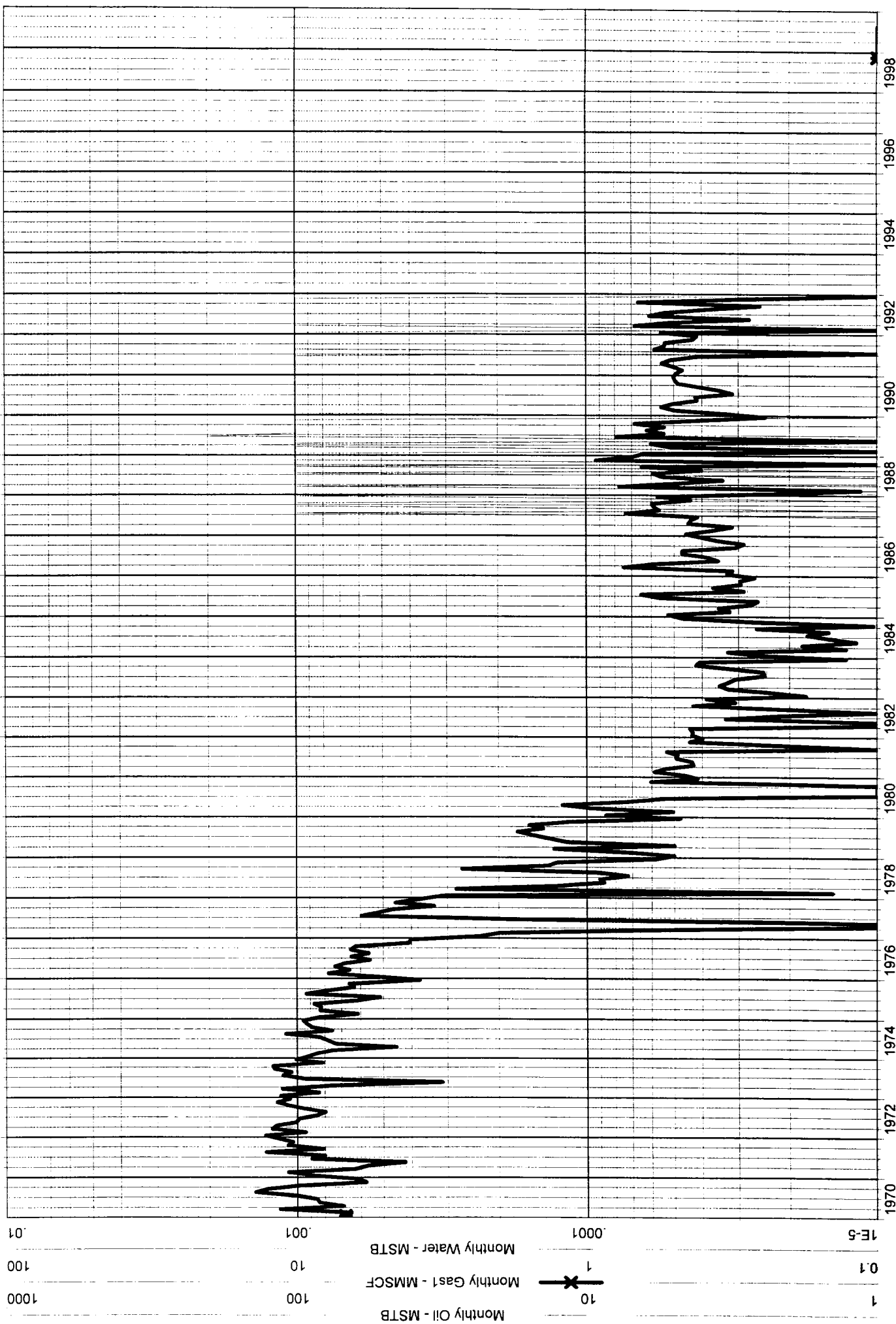
Operator: BURLINGTON RESOURCES OIL GAS CO

Field: ANGELS PEAK GALLUP (ASSOCIATED)

Zone:

Type: Gas

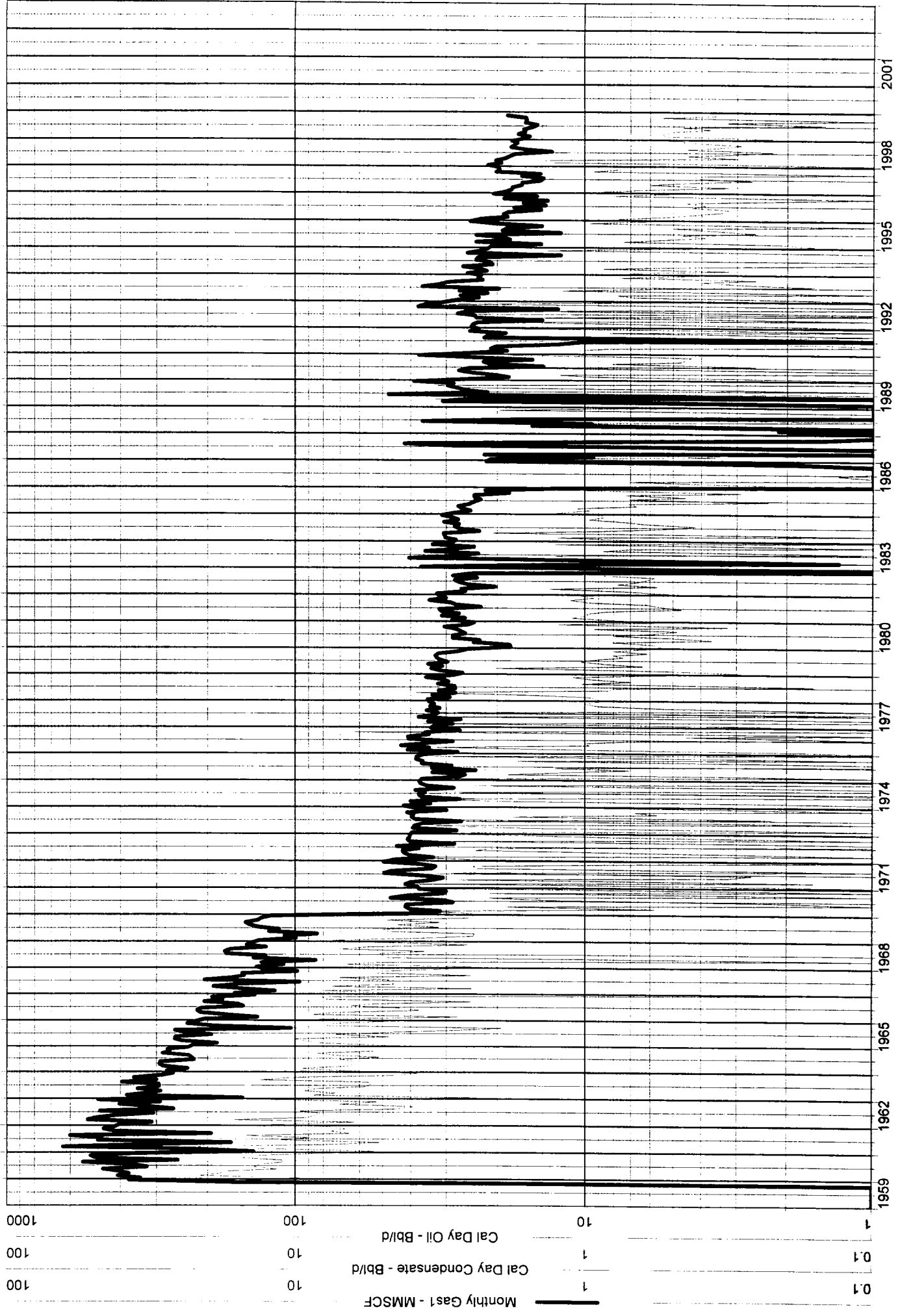
Group: None



HUERFANO UNIT 109 5305402 (12840436317.9433) Data: Jan. 1959-Nov. 1999

Operator: BURLINGTON RESOURCES OIL GAS CO
Field: BASIN DAKOTA (PRORATED GAS)

Zone:
Type: Gas
Group: None



Huerfano Unit #109
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method

Version 1.0 1/14/98

Gallup	Dakota
<u>GP-Current</u>	<u>DK-Current</u>
GAS GRAVITY 0 COND. OR MISC. (C/M) C %N2 0 %CO2 0 %H2S 0 DIAMETER (IN) 0 DEPTH (FT) 0 SURFACE TEMPERATURE (DEG F) 0 BOTTOMHOLE TEMPERATURE (DEG F) 0 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 0 BOTTOMHOLE PRESSURE (PSIA) #DIV/0!	GAS GRAVITY 0.739 COND. OR MISC. (C/M) C %N2 0.47 %CO2 1.06 %H2S 0 DIAMETER (IN) 2.375 DEPTH (FT) 6885 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 143 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 667 BOTTOMHOLE PRESSURE (PSIA) 810.3
Used Current BHP from the Huerfano Unit #108	
<u>GP-Original</u>	<u>DK-Original</u>
GAS GRAVITY 0.669 COND. OR MISC. (C/M) C %N2 1.07 %CO2 0.67 %H2S 0 DIAMETER (IN) 7.625 DEPTH (FT) 6052 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 133 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 1139 BOTTOMHOLE PRESSURE (PSIA) 1343.3	GAS GRAVITY 0.739 COND. OR MISC. (C/M) C %N2 0.47 %CO2 1.06 %H2S 0 DIAMETER (IN) 2.375 DEPTH (FT) 6885 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 143 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 1865 BOTTOMHOLE PRESSURE (PSIA) 2350.2

Huerfano Unit 109
5305401/5305402
Gallup/Dakota

GALLUP

PRESSURE DATA		
Date	Gas Cum	Press
09/28/1959	0	1139
01/05/2000	3351497	415

Using Huerfano Unit #108 current
 pressure data as an offset to the
 Huerfano Unit #109.

DAKOTA

PRESSURE DATA		
Date	Gas Cum	SIWHP
06/25/1959	0	1865
04/30/1992	1309098	667

VOLUMES			
Prod Month	Days On	Gas	Oil
		Production	Production
6/30/99	0	0	0
7/31/99	0	0	0
8/31/99	0	0	0
9/30/99	0	0	0
10/31/99	0	0	0
11/30/99	0	0	0

SI since 11/92. Last production was 10 mcf.

VOLUMES			
Prod Month	Days On	Gas	Oil
		Production	Production
6/30/99	30	1519.22	13.941
7/31/99	28	1455.25	4.606
8/31/99	31	1598.75	10.408
9/30/99	30	1579.03	1.161
10/31/99	31	1590.91	17.02
11/30/99	30	1841.76	10.376

61 mcf/d 0.35 bopd

Huerfano Unit #108 - Current Gallup BHP Determination

- A fluid level was obtained with an Echometer on 1/5/00 at 5425' for the Gallup.
- The lease operator reported that the Gallup produces minimal water. Because this is a quantity that is not measured, it was assumed that all of the liquid in the wellbore was condensate (water cut = 0%).
- The well had been SI less than 1 hour when the fluid level was obtained.

Casing Pressure =	213	psig	Condensate Gravity =	55	API
Fluid Depth =	5425	ft	Cond Spec Gravity =	0.759	
Top Perf Depth =	5899	ft	Cond Density =	47.344	lb/ft ³
Bottom Perf Depth =	6178	ft	Cond Press Grad =	0.329	psi/ft
Mid-Perf Depth =	6038.5	ft	Bottomhole Press =	415	psig

HUERFANO UNIT 109 5305402 (12840436317.9433) Data: Jan. 1959-Dec. 1999

Operator: BURLINGTON RESOURCES OIL GAS CO
Field: BASIN DAKOTA (PRORATED GAS)

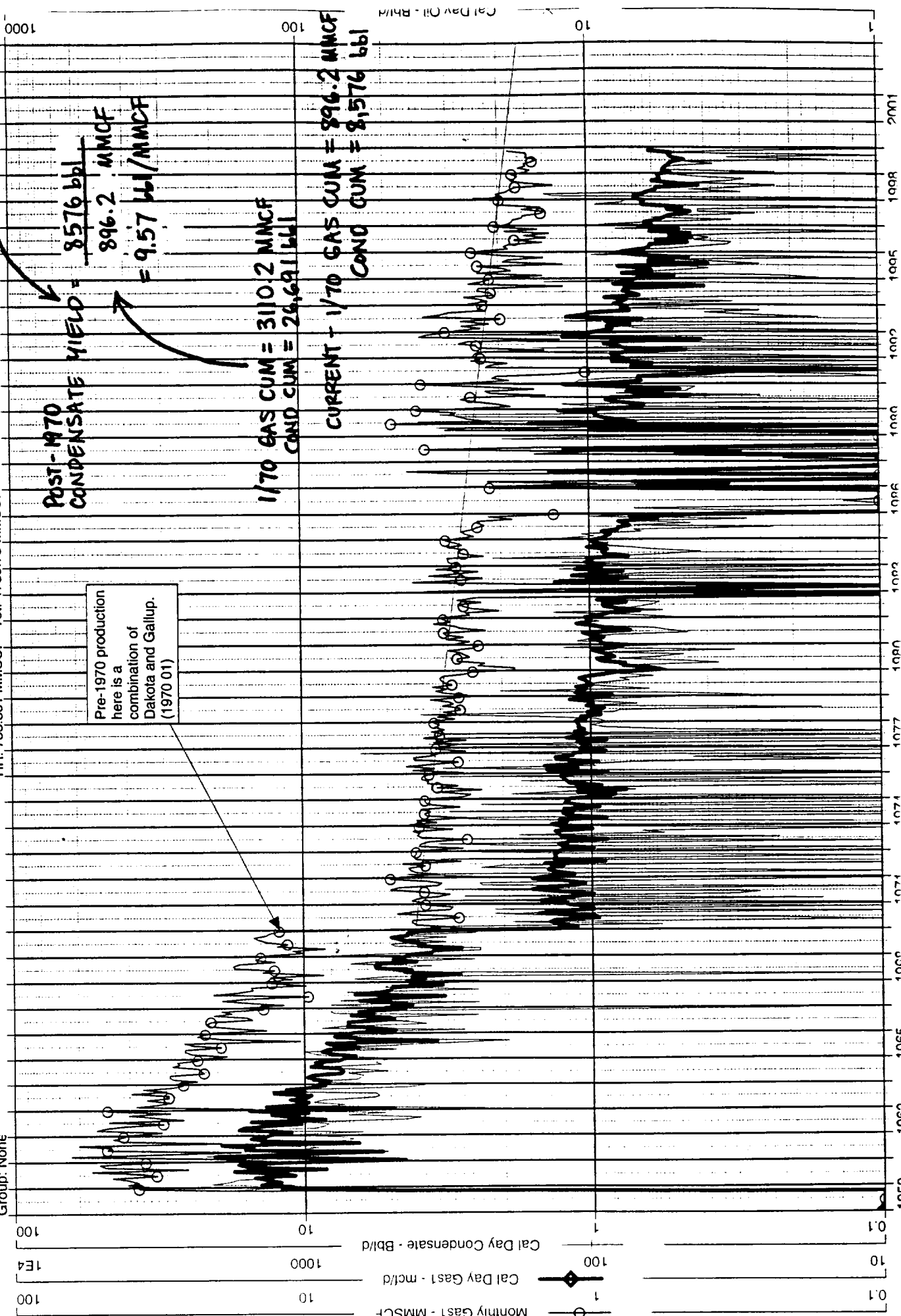
Zone:

Type: Gas

Group: None

98PDP Gas1 (Rate-Time)
qi: 1.97723 MMSCF, Jan, 1998
qf: 0.310703 MMSCF, Dec, 2069
di(Exp): 2.539 CTD: 4006.37 MMSCF
RR: 733.381 MMSCF Tot: 4739.75 MMSCF

Production Cums
Oil: 0 MSTB
Gas: 4006.37 MMSCF
Water: 0.179955 MSTB
Cond: 35.2668 MSTB

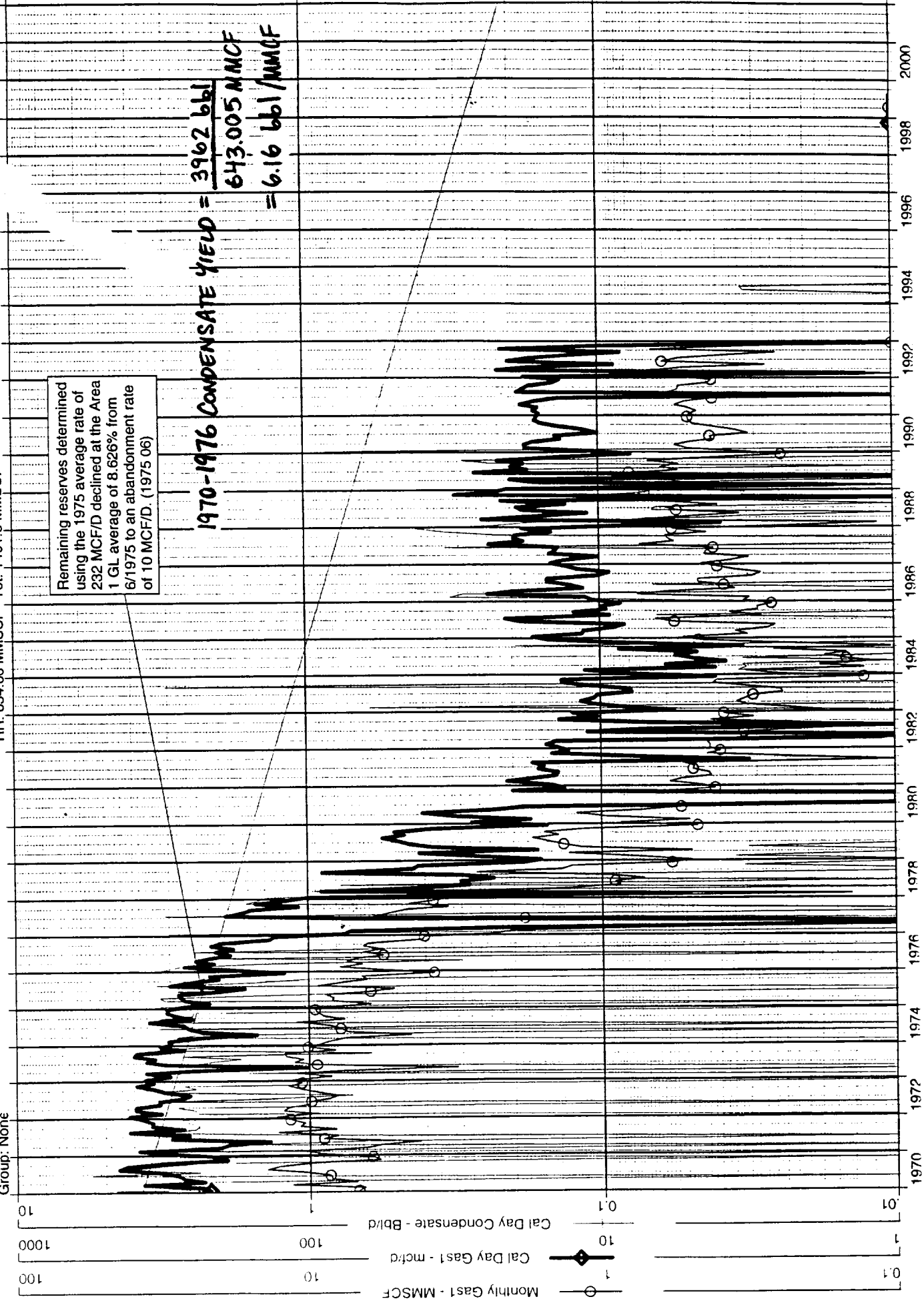


HUERFANO UNIT 109 5305401 (70959893302.9616) Data: Jan. 1970-Dec. 1999

Operator: BURLINGTON RESOURCES OIL GAS CO
 Field: ANGELS PEAK GALLUP (ASSOCIATED)
 Zone:
 Type: Gas
 Group: None

Cal Day Gas1 FC 1 (Rate-Time)
 qi: 232 mcf/d, Jun, 1975
 qf: 10.0093 mcf/d, Apr, 2010
 di(Exp): 8.626 CTD: 836.944 MMSCF
 RR: 654.66 MMSCF Tot: 1491.6 MMSCF

Production Cums
 Oil: 0 MSTB
 Gas: 836.944 MMSCF
 Water: 0.052 MSTB
 Cond: 4.931 MSTB



JOHN P WINDLE PERS REP FOR THE
JANE LOLAX
ANNE ZACHAREK ESTATE
HELEN G PIENKOWSKI
JOSEPHINE ADAMS WESTEFELD
SIDNEY E LICHT & MARTIN C
GUY A WEILL
NELLY WIHL
GROSS OIL DELAWARE CORP
MARIANNE WEILL LESTER
EMILY BARTON
RICHARD LORE ADMINISTRATOR CTA
MARGARET JENSIS DECD
NANCI L FOX
JUDY WINDLE
SIDNEY H DUNKEN
SUSAN REID GALT
EDWARD GRAPEL
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KATHLEEN COLWILL
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DEBORAH JANE KELLY SLAUGHTER
MARGARET DORIS MCCONNELL
SINGER BROS
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BEVERLY D WHITEHEAD
JIM L SHARP
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THORNTON HARDIE III TRUSTEE
CORINNE MIRIAM KELLY CALDER
LAURA PATRICIA LODEWICK
JOHN WIDNEY LODEWICK
HUBERT D JOHNSON & ANNE M
HUBERT D JOHNSON & ANNE M
SHOSS LEVINE TRUSTS 8146 8148
SHOSS LEVINE TRUSTS 8149 8150
GEORGE GALERSTEIN TRUSTEE
CAROLYN BEAMON TILLEY
ROSE MARION BERG
DENNA ELY
JFP INTERESTS A GENERAL PTSHP
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ROBERT W DUDEN & TRUST ACCOUNT
G R FASKEN
FRANK ANDREW FASKEN
EDWIN ROY KELLY
KELLY MINERALS INTERESTS JV
JON BRUSS TRUST
HEDBERG FAMILY LTD PARTNERSHIP
MARY ROBERTSON JEFFS EXEC
MARY ROBERTSON JEFFS FOR LIFE
PATTI JO WOOD
VIRGINIA M SIMMONS
MELCONE CORPORATION
JERRY J ANDREW

JANE C GORDEN
MARY MILLICENT KELLY WEAR
SUSAN BEAMON PORTER
ADELE ALCORN READ
ROSALINE WEISS IND EXEC
JAMES ROBERT BEAMON TRUSTEE
BETTY T JOHNSTON LYLE E CARBAUGH
JAMES ROBERT BEAMON
BETTY T JOHNSTON/LYLE E
PATTIE ANN BEAMON LUNDELL EST
ROBERT WALTER LUNDELL
CATHRYN BEAMON
RODMAN E GRISCOM II
F STEPHEN KELLY III
CLAUDIA MARCIA LUNDELL GILMER
ROBERT E BEAMON III
MABELLE BRAMHALL TRUSTEE
THOMAS H YATES JR
PRIME ENERGY CORPORATION
PEGGY ALCORN KIPP
LEE AYCOCK IND EXECUTRIX
WALKER & KATHRYN DUFFIE
KATHRYN A DUFFIE
JULIA B LILLY INDVDLY AND
SOUTHERN NATL BANK OF HOUSTON
UNITED PIPE SUPPLY CO
V A JOHNSTON FAMILY TRUST
JOHNNIE PETTIE JR
HUFFAKER GREEN AND HUFFAKER
ANNE SIMMONS IND ADMINISTRATOR
GEORGIA PETTIE
BETTIANNE H BOWEN TRUSTEE
WILLIAM J GREEN
THE FASKEN FOUNDATION
BALWICK LTD PARTNERSHIP
RACHEL LYMAN
MICHAEL FITZGERALD AND
MONTEZ JOHNSON TRUSTEE
BARRON PROPERTIES LTD
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BRIAN DICKEY
KATHRYN D ASHBY
DIANNA DICKEY
JAMES B WOODARD
WHITE STAR ENERGY INC
SILVERADO OIL & GAS CORP
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BEN HOWELL LANGFORD
EMILY D GRAMBLING
JOHN A GRAMBLING
EMILIE M HARDIE ROYALTY TRUST
JANE HARDIE TRUSTEE
ELIZABETH H LUND TRUSTEE
JULIE LEVINE MULLEN
CYNTHIA VOGL
HENRY B KRAUSE
JUDITH ANN HERINGER
LAURA DICHTER

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EDNA E MORRELL LIV TR 11-1073
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NORWEST BANK TRUSTEE
CELESTE FASKEN & NORWEST BANK
DONEVA J HUNTINGTON
ELLIOTT-HALL COMPANY
MADELEINE MOORE
GERALD FITZGERALD JR TRUSTEE
CHESTER E THOMPSON JR
JO ANN SCHMIDT ESTATE
JAMES R PAYNE & JEAN PAYNE
PETER BRUSS TRUST
MAUREEN G WRIGHT TRUSTEE
MCCONNELL LTD CO
LANGDON D HARRISON
JULIE ANN ANTWEIL TRUST
CHERYL L POTENZIANI
POTENZIANI FAMILY PTSP
TAMANACO OIL CORP
DONNA S RIDDLE SUCC TRUSTEE
DONALD A PAULEK
BOLACK MINERALS COMPANY
ALBERT R GREER
CHARLES A & NANCIE A GREER TTE
BENSON MONTIN GREER
LEWIS C & BOBBIE D TOWNSEND
KEITH TOWNSEND LIVING TRUST
KENNETH TOWNSEND LIVING TRUST
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ELLIOTT INDUSTRIES
ROBERT M WILLIAMS
J BURTON VETETO
ANNA LOU HOME TRUSTEE
JUNE ELAINE MACDONALD
SUNLAND REFINING CORP
DIANNE CLEES & HOMER N CLEES
TERESA HOME
CHARLES E HINKLE
DAVID WILLIAM WALTERS TRUSTEE
SHARON BEAMON BURNS
EVKO DEVELOPMENT COMPANY
JULIA EVETTS SIMPSON TRSTEE
KENNETH ROBERT SCHMIDT
WILLIAM DENNIS SCHMIDT
ROBERT KLINGER SUCC TRUSTEE
ANN HOME EMMERSON TR
DOROTHY J BREWSTER
SIDNEY E LICHT
MURRAY LANGFELDER
WM M WESTERMAN PERSONAL REP
AMOCO PRODUCTION COMPANY
ROBERTA JUNE DENOON THOMAS EX
FIRST NATL BK & WILFRED B
ELLIOTT D DULANEY
JANE E WILLERS
OFFICE OF THE COMPTROLLER

W BENTON HARRISON III
ENERGEN RESOURCES MAQ INC
DAVID A BERNOUDY
CORINNE ROY KELLY INDVDLY
DEOBRAH K SLAUGHTER TRUSTEE
ZZZ KELLY & TRUST LLC
ALICE JANE WEBB
FREDERICK EUGENE TURNER
FREDERICK EUGENE TURNER
LA PLATA GATHERING SYSTEM INC
ELIZABETH JEANNE TURNER
ELIZABETH JEANNE T CALLOWAY
ELIZABETH T CALLOWAY
J GLENN TURNER JR
J GLENN TURNER JR
DAVID G MCLANE
WILLIAM G WEBB
WILLIAM G WEBB
ROSE MARION BERG DENNA ELY,
EVELYN SMITH
CROSS TIMBERS OIL COMPANY
NATIONSBANK NA
NATIONSBANK NA
NATIONSBANK NA
NATIONSBANK NA
CYRENE L INMAN
BANK OF AMERICA NA TRUSTEE
MCCONNELL TRUST
NATIONSBANK NA
NATIONSBANK NA
NATIONSBANK NA
NATIONSBANK
NATIONSBANK
SHELIA MARIE LEVINE TRUST
SAN JUAN 1990-A LP
ATNA/SJ 1993-A
MAP 1998-A LP
ROGERS-GIBBARD TRUST
LINDA JEANNE LUNDELL LINDSEY
LINDA JEANNE LUNDELL LINDSEY
ROGER B NIELSEN
LEE ETTA HEDBERG
DORIS F FAM BRO
TOM L HAIL TR
BALLARD EXPLORATION CO INC
ROBERT BEAMON
ELLIS RUDY LTD
LOWE PARTNERS LP
CHASE BANK OF TEXAS NA
CHASE BANK OF TEXAS NA TRUSTEE
CHASE BANK OF TEXAS NA TRUSTEE
CHASE BANK OF TEXAS NA TRSTEE
CHASE BANK OF TEXAS NA TRUSTEE
CHASE BANK OF TEXAS NA TRSTEE
GLOBAL NATURAL RESOURCES
CONOCO INC
MATAGORDA OIL COMPANY
RANDALL T JOHNSON TRUSTEE

VIOLA I STEWART TRUST
GARY W HARVEY INDEP EXEC
SANDRA CHAMBERS
RACHEL LYMAN & THOMAS C BROWN
PATSY R CUMMINS
JAMES ROBERT MARTIN
VIRGINIA GIPSON
RICHARD PARKER LANGFORD
MINERALS MANAGEMENT SERVICE
WENDT & ASSOCIATES
STEVEN PRICE FASKEN REV TRUST
PATRICIA G HARVEY
MARY ANN HONEY
FRANK D GORHAM JR
MAXINE S GRAHAM
STATE OF NEW MEXICO
HANSON MCBRIDE PETROLEUM CO
JOHN T HINKLE & LINDA J
CHASE OIL CORPORATION
KATHLEEN EARNEST RIOS TRUSTEE
FRESNO INTERNAL REVENUE SERV
CYNTHIA LACKEY TRUSTEE FOR
JEANNETTE C CARNS DECD
CASSANDRA KEYSER
LORIS MACOR TRTE/EXEC UWO E J