

DATE BY 2/14/00	SUSPENSE 3/6/00	ENGINEER DC	LOGGED KV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

2671

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

- [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
- [DD-Directional Drilling] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

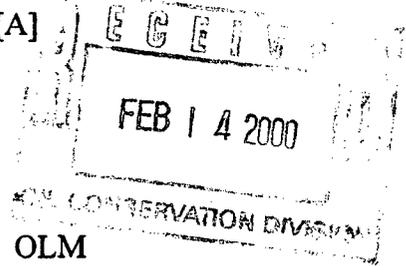
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Directional Drilling
NSL NSP DD SD

Check One Only for [B] and [C]

- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
WFX PMX SWD IPI EOR PPR



[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Peggy Cole

Peggy Cole

Regulatory/Compliance Administrator

Print or Type Name

Signature

Title

Date

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 87505-6429

Form C-107-A New 3-12-96

APPROVAL PROCESS :

X Administrative Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

X YES ___ NO

Burlington Resources Oil and Gas

PO Box 4289, Farmington, NM 87499

Operator Huerfano Unit #109 Address 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 X, State X, Fee

Table with 4 columns: The following facts are submitted in support of downhole commingling, Upper Zone, Intermediate Zone, Lower Zone. Rows include Pool Name, Top and Bottom of Pay Section, Type of production, Method of Production, Bottomhole Pressure, Oil Gravity, Producing or Shut-in, Production Marginal, and Fixed Percentage Allocation.

- 9. If allocation formula is based upon something other than current or past production...
10. Are all working, overriding, and royalty interests identical in all commingled zones?
11. Will cross-flow occur?
12. Are all produced fluids from all commingled zones compatible with each other?
13. Will the value of production be decreased by commingling?
14. If this well is on, or communitized with, state or federal lands...
15. NMOCD Reference Cases for Rule 303(D) Exceptions:
16. ATTACHMENTS:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Y. Tom Loveland TITLE Engineer I DATE 1-18-00
TYPE OR PRINT NAME L. Tom Loveland TELEPHONE NO. (505) 326-9700

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

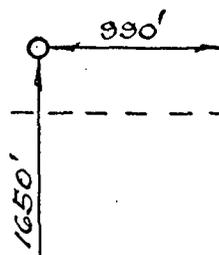
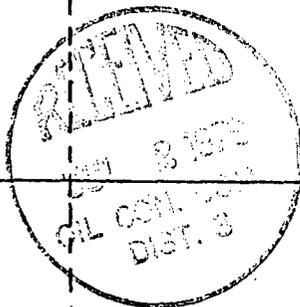
NOTE: THIS PLAT REISSUED TO REFLECT GALLUP PRODUCTION RECLASSIFIED AS OIL WELL.

8-8-78

NOTE: THIS PLAT REISSUED TO REFLECT GALLUP PRODUCTION RECLASSIFIED AS GAS WELL.

6-28-79

SECTION 2



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

D. P. Buses

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

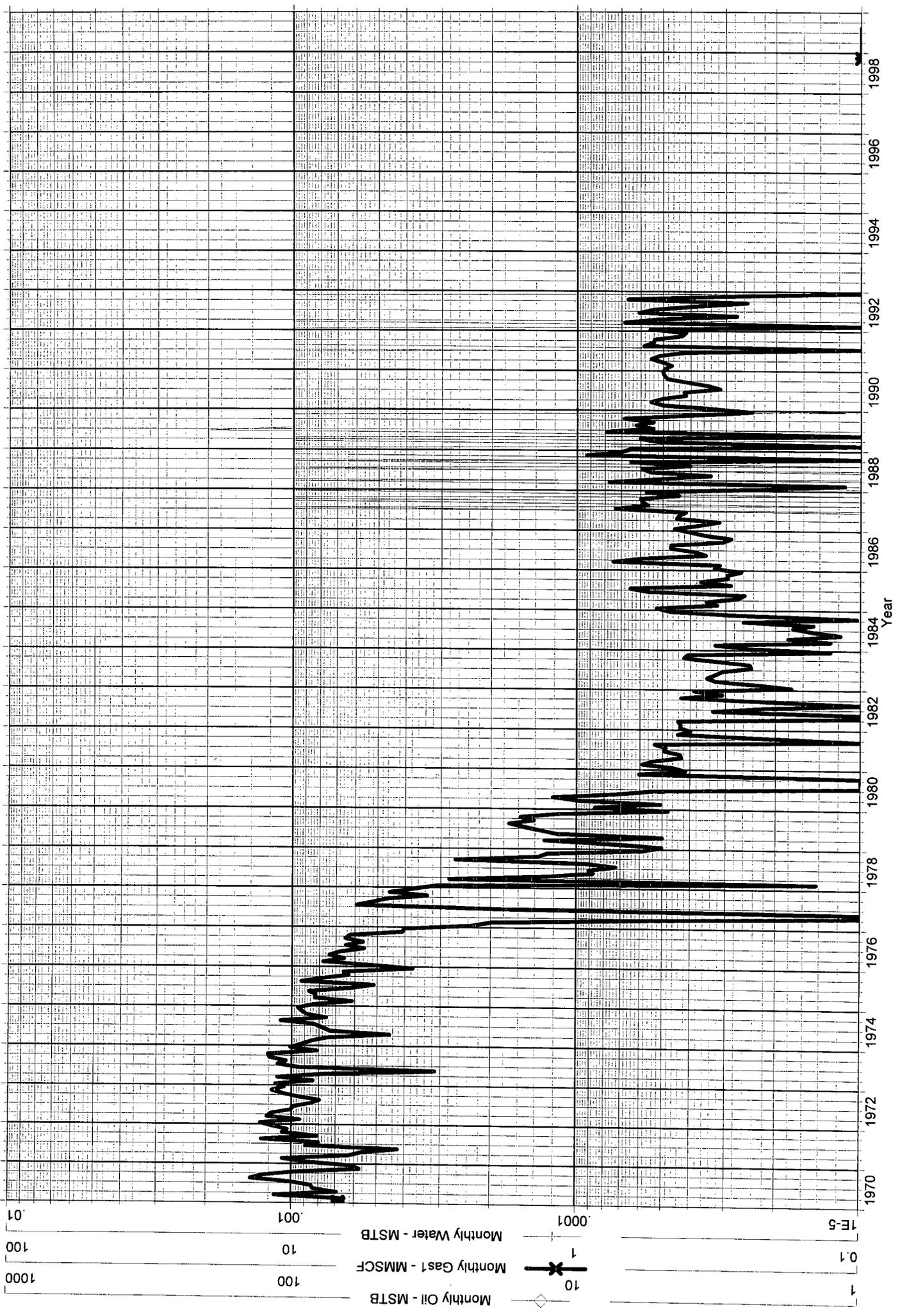
Certificate No.

1760

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

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

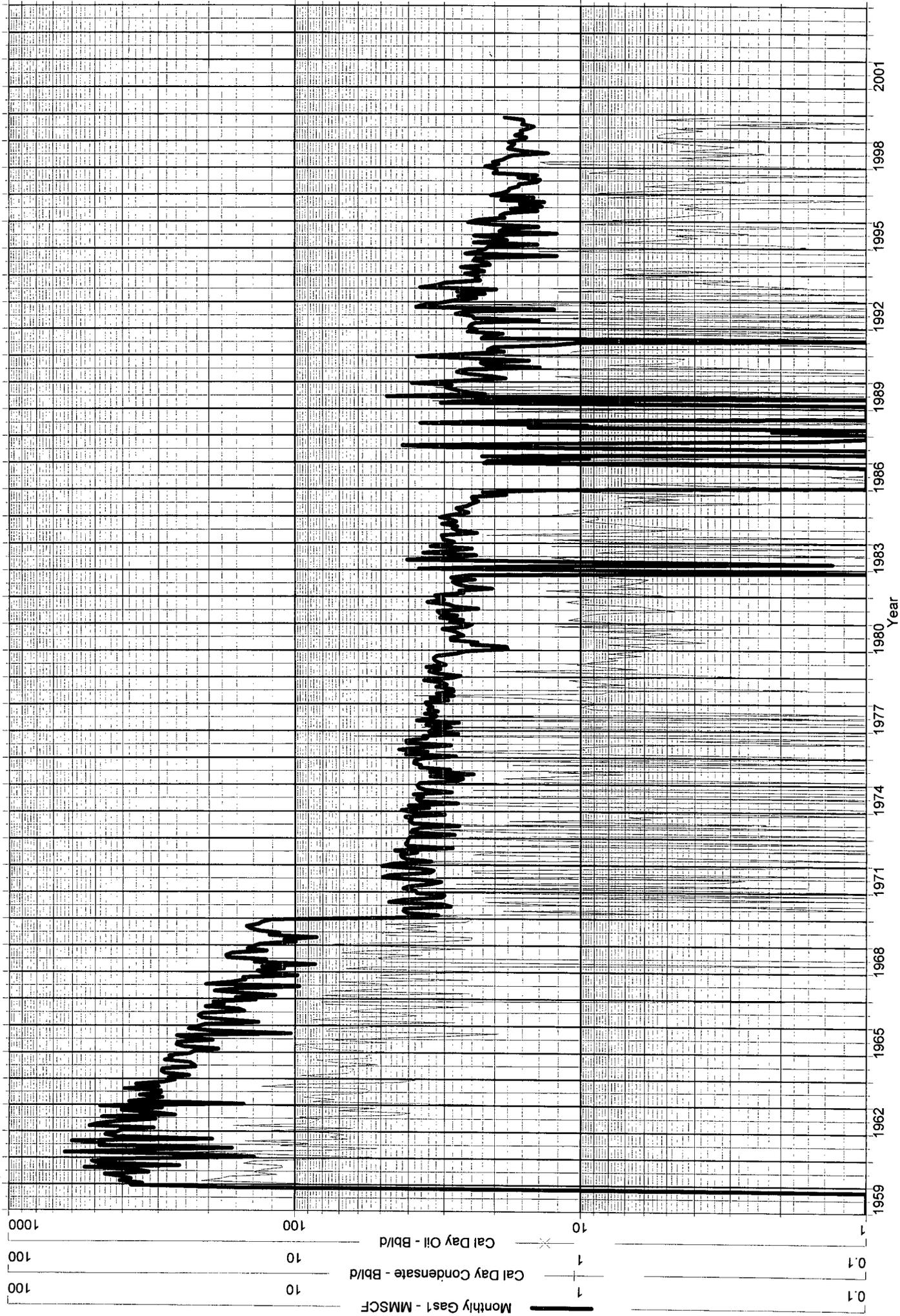
Operator: BURLINGTON RESOURCES OIL GAS CO
Field: ANGELS PEAK GALLUP (ASSOCIATED)
Zone:
Type: Gas
Group: None



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>																																																
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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.

BHP

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	Production
6/30/99	0	0	0	0
7/31/99	0	0	0	0
8/31/99	0	0	0	0
9/30/99	0	0	0	0
10/31/99	0	0	0	0
11/30/99	0	0	0	0

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

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

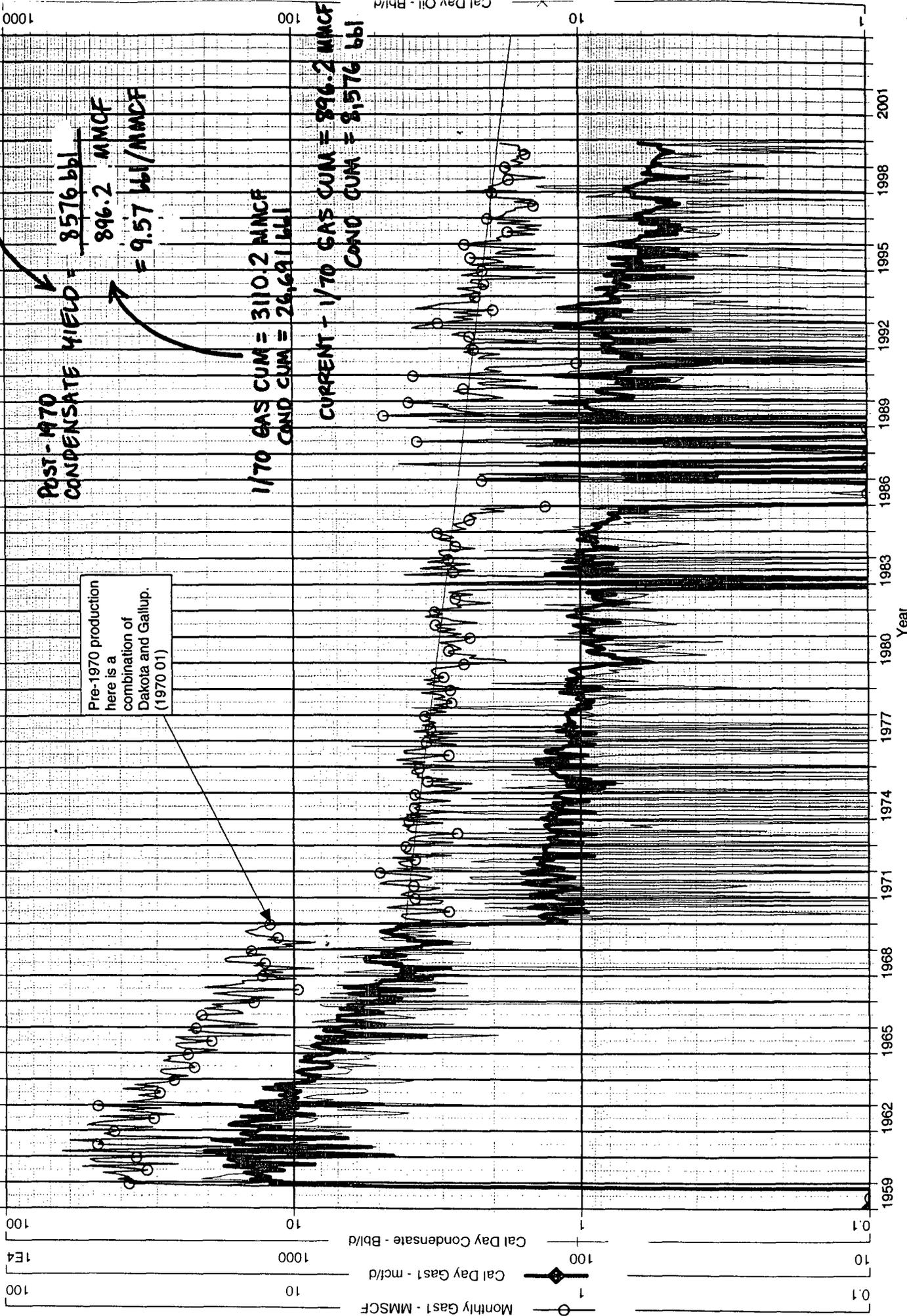
HUERFANO UNIT 109 5305402 (12840436317.9433) Data: Jan. 1959-Dec. 1999

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

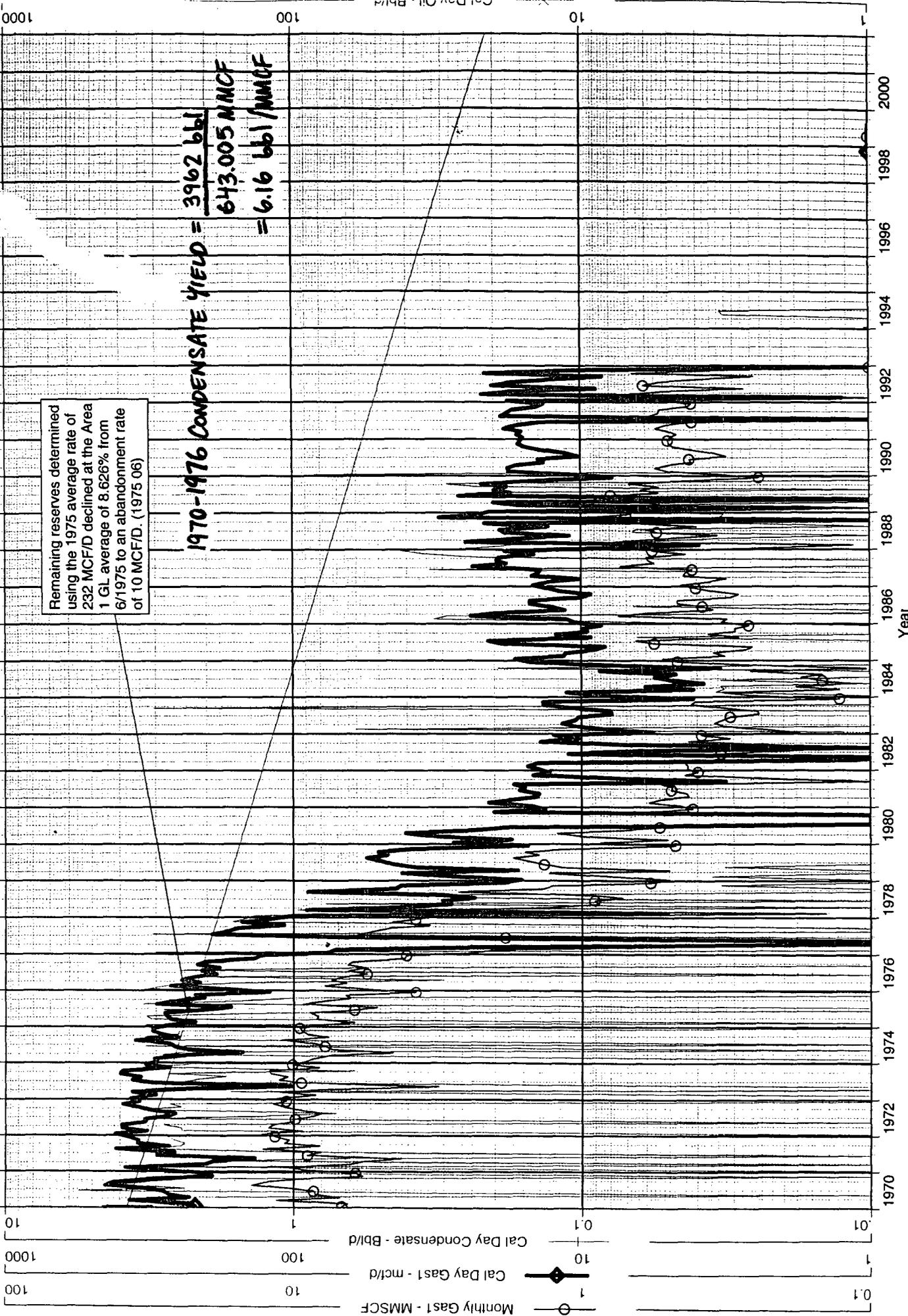


HUERFANO UNIT 109 5305401 (70959893302.9616) Data: Jan. 1970-Dec. 1999

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 Cumis
 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
LAWRENCE L LAVALLE
KATHLEEN COLWILL
JOSEPH C JASTRZEMBSKI
DEBORAH JANE KELLY SLAUGHTER
MARGARET DORIS MCCONNELL
SINGER BROS
JOHN LEE TURNER
BEVERLY D WHITEHEAD
JIM L SHARP
HENRIETTA E SCHULTZ TRUSTEE
THORNTON HARDIE III TRUSTEE
CORINNE MIRIAM KELLY CALDER
LAURA PATRICIA LODEWICK
JOHN WIDNEY LODEWICK
HUBERT D JOHNSON & ANNE M
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GEORGE GALERSTEIN TRUSTEE
CAROLYN BEAMON TILLEY
ROSE MARION BERG
DENNA ELY
JFP INTERESTS A GENERAL PTSHP
ANNA CELIA HOWELL HILTON
DANIEL D DUDEN & TRUST ACCOUNT
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
JOHN DICKEY
BRIAN DICKEY
KATHRYN D ASHBY
DIANNA DICKEY
JAMES B WOODARD
WHITE STAR ENERGY INC
SILVERADO OIL & GAS CORP
R H FEUILLE
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

UW FOSTER MORRELL DECD 11-1065
EDNA E MORRELL LIV TR 11-1073
MINERALS MANAGEMENT SERVICE
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
NEW MEXICO GEOLOGICAL SOCIETY
JAMES LISLE HINKLE
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 FAMBRO
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