DATE IN 1/19/01	SUSPENSE 2/8/01	ENGINEER DC	LOGGED IN KV	TYPE DHC	APP NO. 102250681

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

2874

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [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]

RECEIVED
JAN 19 2001
OIL CONSERVATION DIVISION

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

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [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** - Certification

I hereby certify that I, or personnel under my supervision, have reviewed the 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 (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Peggy Cole	Peggy Cole	Regulatory Supervisor	1-12-01
Print or Type Name	Signature	Title	Date

pbradfield@br-inc.com
e-mail Address

District I
1625 N. French Drive, Hobbs, NM 88240
District II
811 South First Street, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107A
Revised May 15, 2000

APPLICATION TYPE
____Single Well
____Establish Pre-Approved Pools
EXISTING WELLBORE
__X__ Yes ____No

BURLINGTON RESOURCES OIL & GAS COMPANY — PO BOX 4289, FARMINGTON, NM 87499

Operator — Address

DAVIS — 9E — A-12-31N-12W — SAN JUAN

Lease — Well No. — Unit Letter-Section-Township-Range — County

OGRID No. 14538 Property Code 18509 API No. 3004523982 Lease Type: Federal X State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	BLANCO PICTURED CLIFFS	BLANCO MESAVERDE	BASIN DAKOTA
Pool Code	72359	72319	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2933'-3008'	WILL BE SUPPLIED UPON COMPLETION	7388'-7540'
Method of Production (Flowing or Artificial Lift)	FLOWING	FLOWING	FLOWING
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	502 PSI – CURRENT 950 PSI – ORIGINAL (see attachment)	544 PSI – CURRENT 915 PSI – ORIGINAL (see attachment)	693 PSI – CURRENT 1138 PSI – ORIGINAL (see attachment)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1114	1179	1189
Producing, Shut-In or New Zone	SHUT IN	NEW ZONE	SHUT IN
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: 11/30/00 Rates: 59 mcfd	Date: New Zone Rates: (see attached)	Date: 11/30/00 Rates: 71 mcfd
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil % Gas % WILL BE SUPPLIED UPON COMPLETION	Oil % Gas % WILL BE SUPPLIED UPON COMPLETION	Oil % Gas % WILL BE SUPPLIED UPON COMPLETION

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes___ No__X__
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes__X__ No_____

Are all produced fluids from all commingled zones compatible with each other? Yes___X___ No_____

Will commingling decrease the value of production? Yes_____ No___X__

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes__X____ No_____

NMOCD Reference Case No. applicable to this well: _____

Attachments:
C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
Production curve for each zone for at least one year. (If not available, attach explanation.)
For zones with no production history, estimated production rates and supporting data.
Data to support allocation method or formula.
Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools
List of all operators within the proposed Pre-Approved Pools
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
Bottomhole pressure data.

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

SIGNATURE Dan Voecks TITLE Production Engineer DATE 01/16/01

TYPE OR PRINT NAME Dan T. Voecks TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-23982	72359/72319/71599	Basin Dakota Blanco Pictured Cliffs/Blanco Mesaverde/

[4] Property Code	[5] Property Name	[6] Well Number
18509	Davis	9E

[7] OGRID No.	[8] Operator Name	[9] Elevation
14538	Burlington Resources Oil & Gas Company	6342' GR

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	12	31N	12W		945'	North	820'	East	SJ

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
PC - 136.32 MV/DK - E/278.78			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16

945'
820'

[17] OPERATOR CERTIFICATION

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

Signature

Peggy Cole
Printed Name

Regulatory Supervisor
Title

Date

[18] SURVEYOR CERTIFICATION

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 belief.

Date of Survey

Signature and Seal of Professional Surveyer:

Certificate Number

Davis #9E

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Pictured Cliffs

PC-Current

GAS GRAVITY	0.675
COND. OR MISC. (C/M)	C
%N2	0.21
%CO2	0.4
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	3009
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	502
BOTTOMHOLE PRESSURE (PSIA)	540.7

PC-Original

GAS GRAVITY	0.675
COND. OR MISC. (C/M)	C
%N2	0.21
%CO2	0.4
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	3009
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	878
BOTTOMHOLE PRESSURE (PSIA)	950.2

Dakota

DK-Current

GAS GRAVITY	0.663
COND. OR MISC. (C/M)	C
%N2	0.18
%CO2	2.65
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7525
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	583
BOTTOMHOLE PRESSURE (PSIA)	692.9

DK-Original

GAS GRAVITY	0.663
COND. OR MISC. (C/M)	C
%N2	0.18
%CO2	2.65
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7525
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	950
BOTTOMHOLE PRESSURE (PSIA)	1138.2

Davis #9E

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde

MV-Current

GAS GRAVITY	0.688
COND. OR MISC. (C/M)	C
%N2	0.274
%CO2	1.548
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7635
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	449
BOTTOMHOLE PRESSURE (PSIA)	543.7

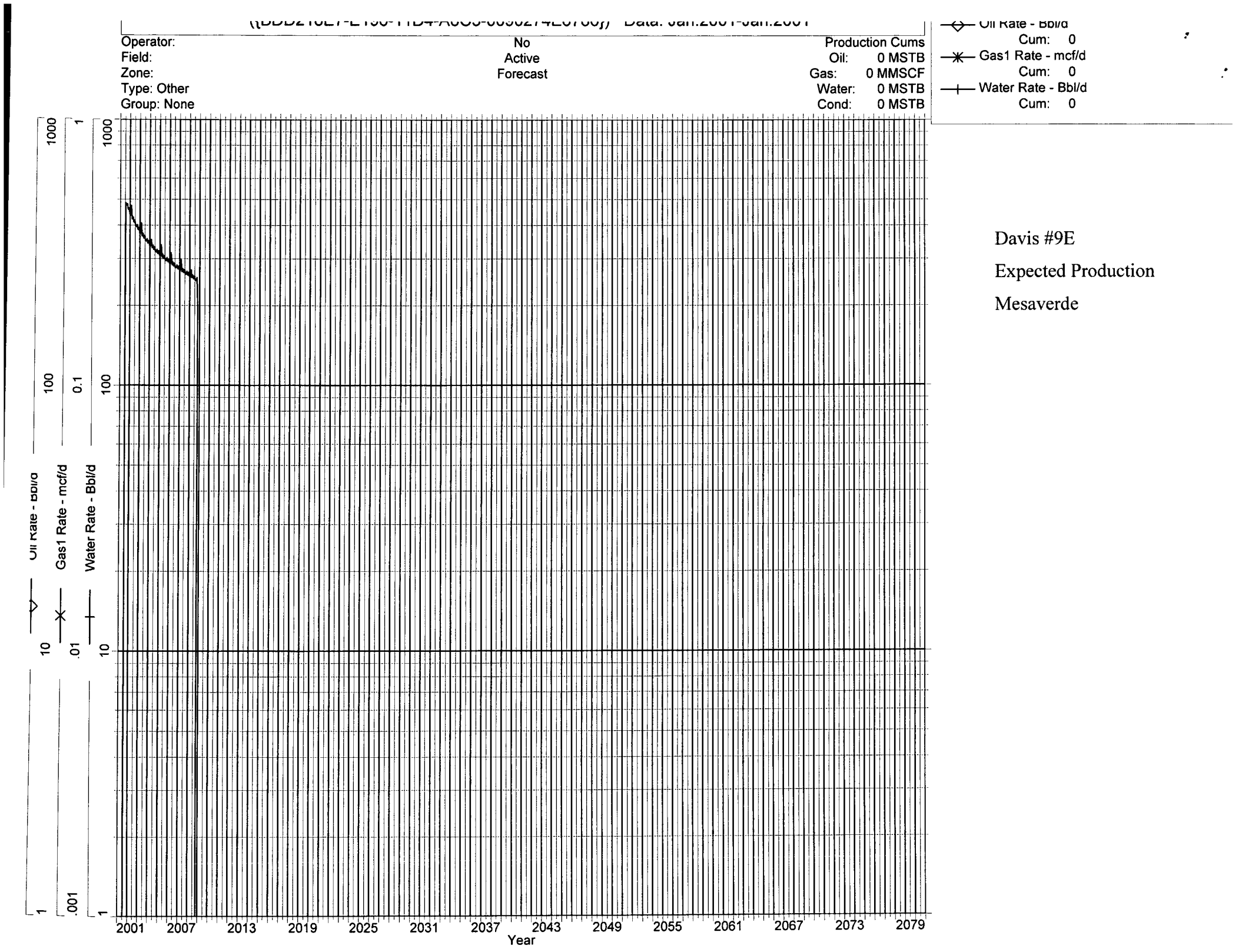
MV-Original

GAS GRAVITY	0.688
COND. OR MISC. (C/M)	C
%N2	0.274
%CO2	1.548
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7635
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	748
BOTTOMHOLE PRESSURE (PSIA)	915.1

	Well Name	Date			PSI
PC	DAVIS 9E 1163701	1980	10	30	878
PC	DAVIS 9E 1163701	1981	3	31	658
PC	DAVIS 9E 1163701	1982	4	1	542
PC	DAVIS 9E 1163701	1983	4	24	524
PC	DAVIS 9E 1163701	1984	6	27	502

	Well Name	Date			PSI
DK	DAVIS 9E 1163702	1981	3	31	950
DK	DAVIS 9E 1163702	1982	4	1	732
DK	DAVIS 9E 1163702	1983	4	24	683
DK	DAVIS 9E 1163702	1985	4	25	710
DK	DAVIS 9E 1163702	1988	1	13	579
DK	DAVIS 9E 1163702	1990	6	7	599
DK	DAVIS 9E 1163702	1992	3	29	583

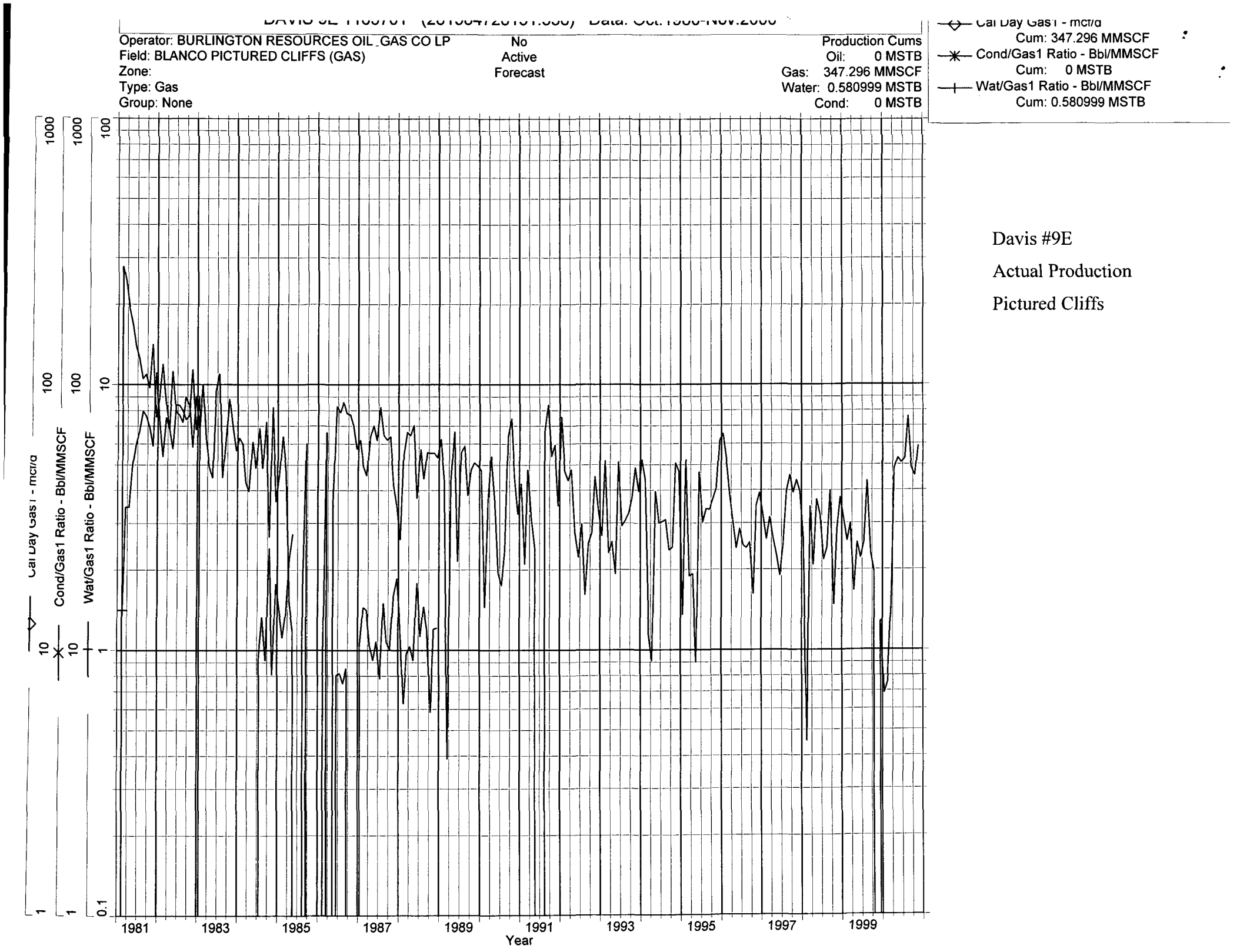
	Well Name	Date			PSI
MV	DAVIS 10 1160902	1970	4	18	748
MV	DAVIS 10 1160902	1971	4	18	657
MV	DAVIS 10 1160902	1972	3	18	641
MV	DAVIS 10 1160902	1973	6	2	641
MV	DAVIS 10 1160902	1974	6	19	587
MV	DAVIS 10 1160902	1976	6	18	585
MV	DAVIS 10 1160902	1978	5	3	517
MV	DAVIS 10 1160902	1980	8	16	528
MV	DAVIS 10 1160902	1982	4	8	520
MV	DAVIS 10 1160902	1984	6	27	509
MV	DAVIS 10 1160902	1986	2	19	495
MV	DAVIS 10 1160902	1989	10	26	468
MV	DAVIS 10 1160902	1991	6	19	446
MV	DAVIS 10 1160902	1991	7	15	458
MV	DAVIS 10 1160902	1993	6	2	449



Davis #9E

Expected Production

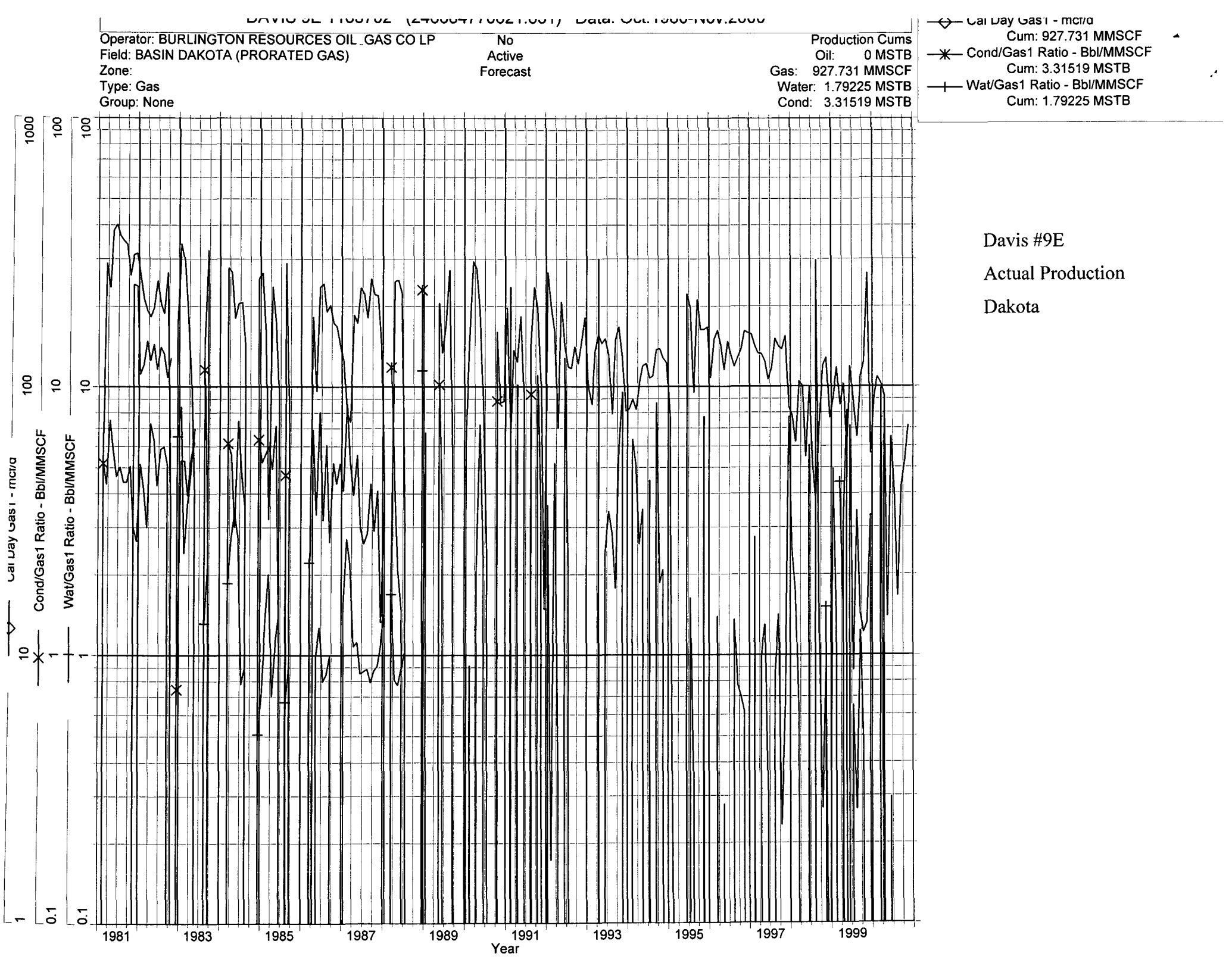
Mesaverde



Davis #9E

Actual Production

Pictured Cliffs



Davis #9E

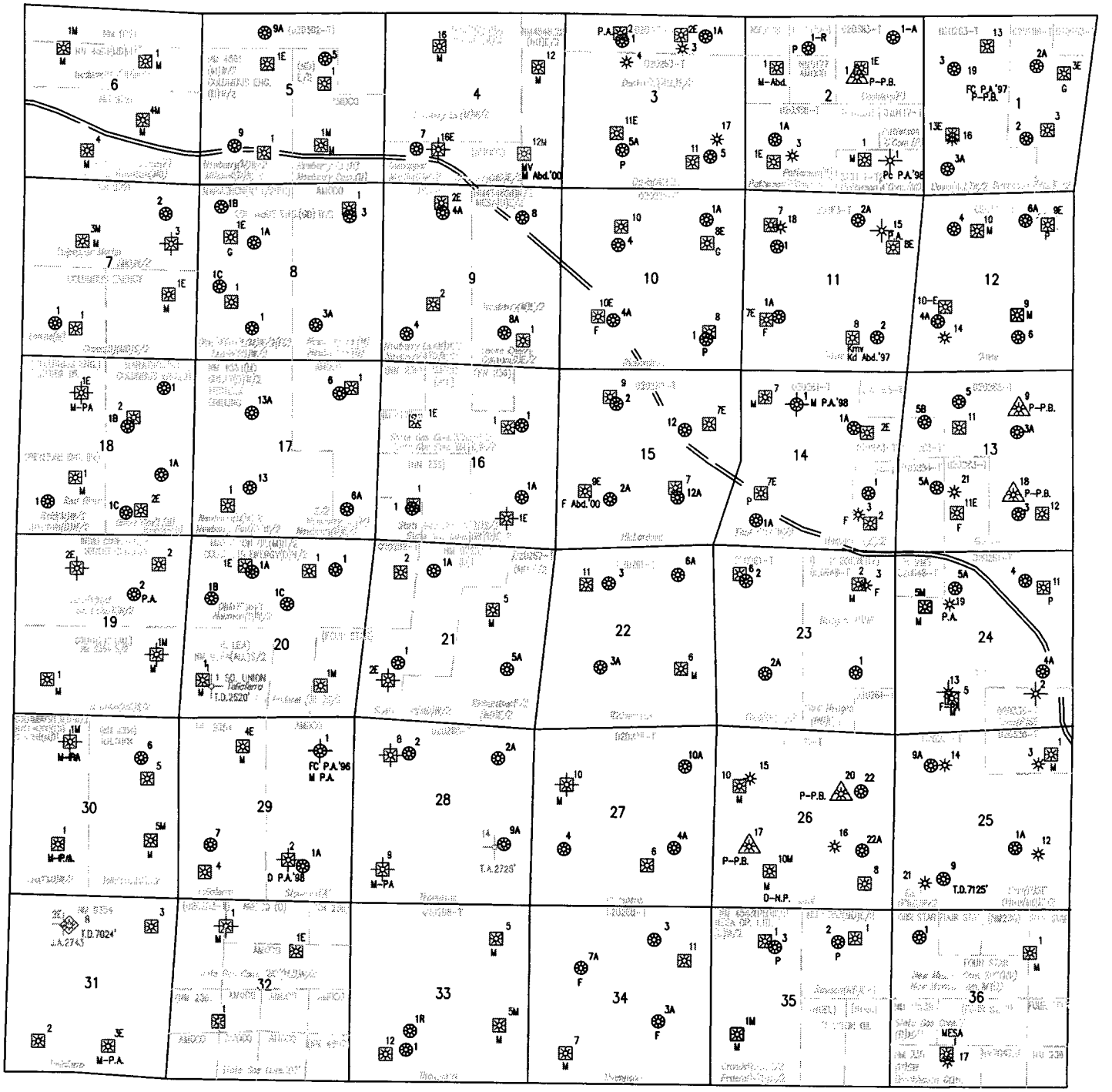
Actual Production

Dakota

Davis #9E

Pictured Cliffs / Mesaverde / Dakota

31N –12W – 12



Davis #9E - working interest owner

Ronald S. Davis, MD
PO Box 5912
Tyler, Texas 75711