DATE IN	8/3/99	SUSPENSE	8/23/99	ENGINEER	DC	LOGGED BY	KV	TYPE	DHC

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
2040 South Pacheco, Santa Fe, NM 87505

2442

ADMINISTRATIVE APPLICATION COVERSHEET

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

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] 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

RECEIVED
AUG - 3 1999
OIL CONSERVATION DIVISION

[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 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 (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.

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

EXISTING WELLBORE
_X_ YES __ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company — Operator
PO Box 4289, Farmington, NM 87499 — Address

FEUILLE A	5E	K 4-T29N-R10W	SAN JUAN
Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. _14538___ Property Code _7015____ API NO. 30-45-2624900____Federal ___X____ , State _____, (and/or) Fee _____

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	MESA VERDE – 72319		DAKOTA – 71599
2. Top and Bottom of Pay Section (Perforations)	4028' – 4524', 4583'-4785'		6679'-6773'
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) Est. a. 424.2	a.	a. 432.2
	(Original) Est. b. 1323.8	b.	b. 1347.8
6. Oil Gravity (°API) or Gas BTU Content	BTU 1230		BTU 1106
7. Producing or Shut-In?	Not yet completed		Producing
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In 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: n/a Rates:	Date: Rates:	Date: n/a Rates:
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: n/a Rates: n/a	Date: Rates:	Date: n/a Rates: 102 MCF/D
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % will be supplied upon completion	Oil: % Gas: %	Oil: % Gas: % will be supplied upon completion

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? _X_Yes _____No
If not, have all working, overriding, and royalty interests been notified by certified mail? ____Yes __x__No
Have all offset operators been given written notice of the proposed downhole commingling? ___Yes _____No

11. Will cross-flow occur? _x___ Yes __ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. __x____ Yes _____No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? __x_ Yes ___ No

13. Will the value of production be decreased by commingling? ___ Yes _X_ No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. _X__Yes ___ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). ___ _____

16. 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 all offset operators.
* Notification list of working, overriding, and royalty interests for uncommon interest cases.
* Any additional statements, data, or documents required to support commingling.

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

SIGNATURE _____ TITLE__Production Engineer_____ _DATE ____07-28-99__

TYPE OR PRINT NAME __Mike Pippin_____ TELEPHONE NO. (505) 326-9700_____

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1

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

Operator	Lease	Well No.
EL PASO NATURAL GAS COMPANY	FEUILLE "A" (SF 078197)	5E

Unit Letter	Section	Township	Range	County
K	4	29N	10W	San Juan

Actual Footage Location of Well:
1510 feet from the South line and 1690 feet from the West line

Ground Level Elev:	Producing Formation	Pool	Dedicated Acreage:
5892	Dakota	Basin	292.04 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

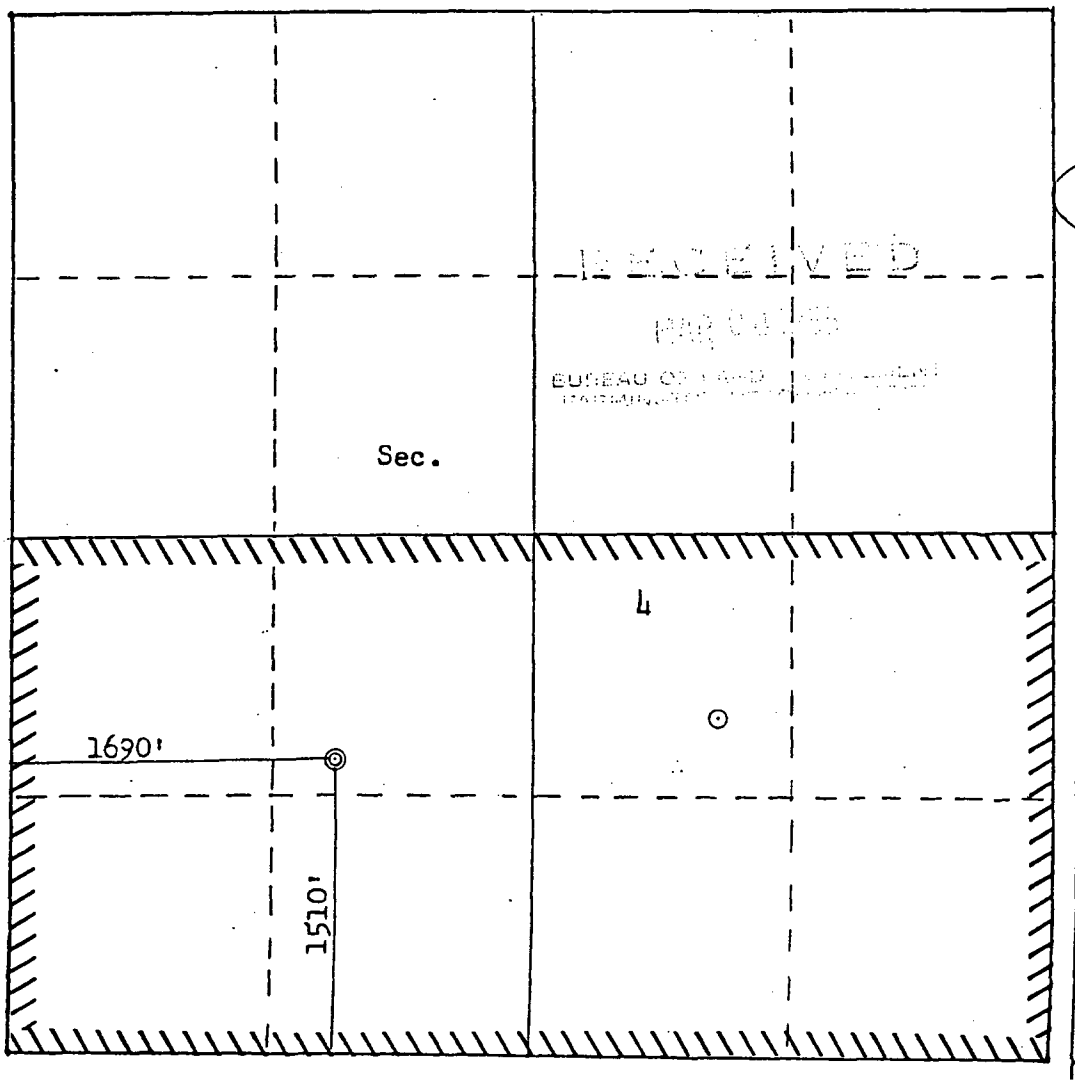
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 _____

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.



CERTIFICATION

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

Peggy Cole

Name: Drilling Clerk

Position: El Paso Natural Gas Co.

Company: March 1, 1985

Date:

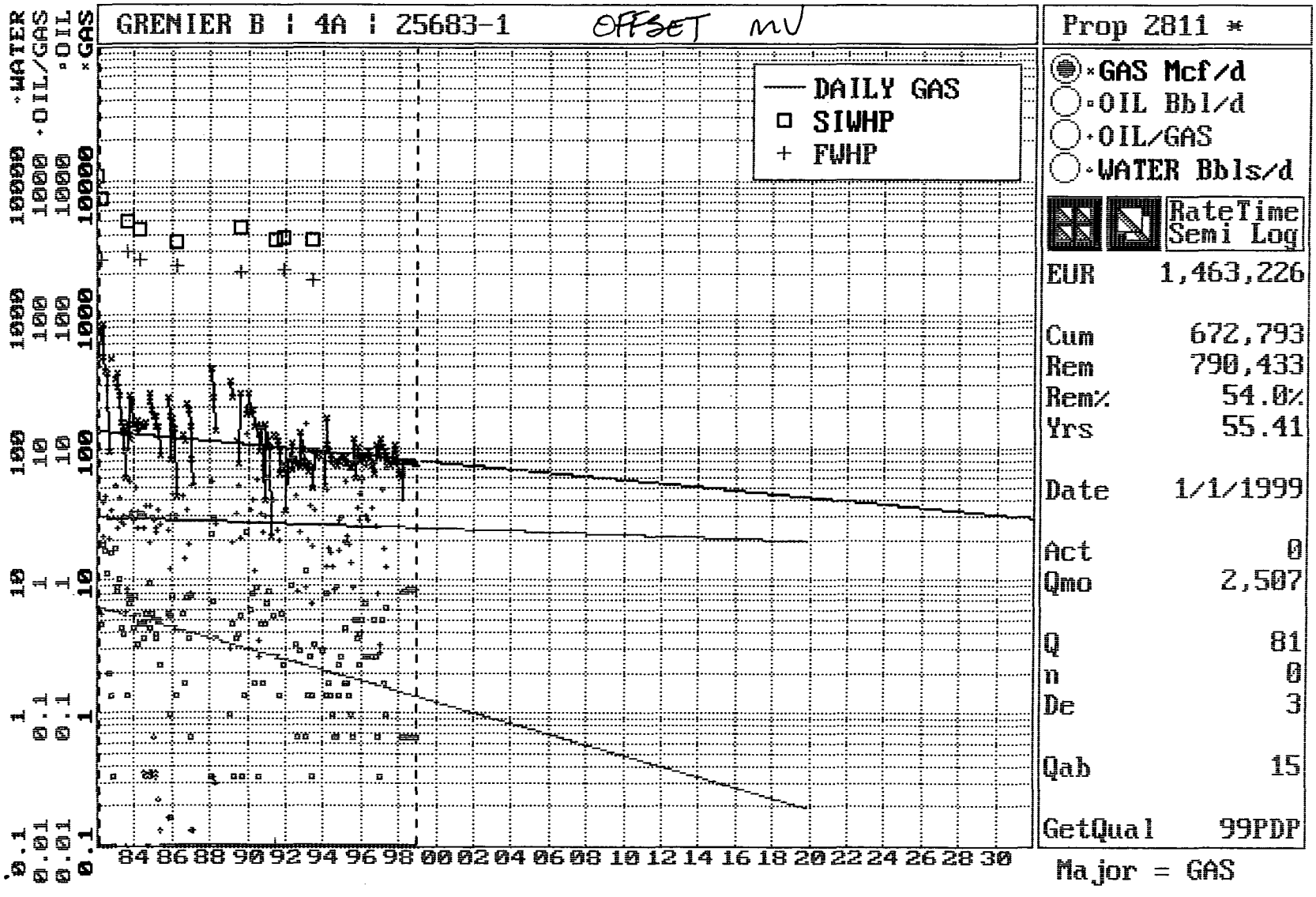
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

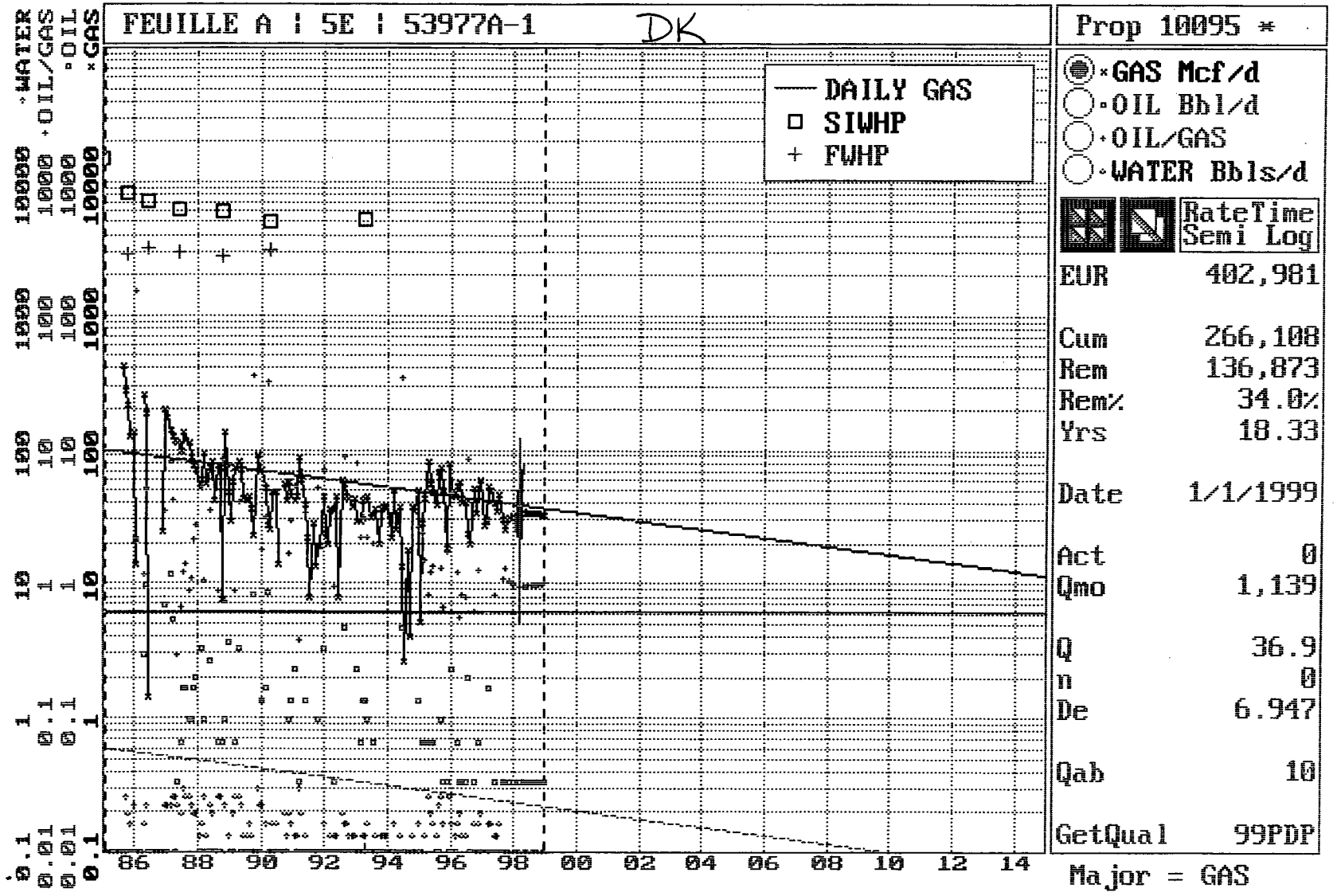
Date Surveyed: February 27, 1985

Registered Professional Engineer and Land Surveyor: Fred B. Kerr Jr.

REGISTERED LAND SURVEYOR

Certificate No.


GRENIER B | 4A | 25683-1 OFFSET MV
DAILY GAS
SIWHP
FWHP
·WATER
·OIL/GAS
·OIL
×GAS
84 86 88 90 92 94 96 98 00 02 04 06 08 10 12 14 16 18 20 22 24 26 28 30
Prop 2811 *
×GAS Mcf/d
·OIL Bbl/d
·OIL/GAS
·WATER Bbls/d
RateTime
Semi Log
EUR 1,463,226
Cum 672,793
Rem 790,433
Rem% 54.0%
Yrs 55.41
Date 1/1/1999
Act 0
Qmo 2,507
Q 81
n 0
De 3
Qab 15
GetQual 99PDP
Major = GAS


FEUILLE A | 5E | 53977A-1
DK
DAILY GAS
SIWHP
FWHP
·WATER
·OIL/GAS
·OIL
·GAS
86 88 90 92 94 96 98 00 02 04 06 08 10 12 14
Prop 10095 *
·GAS Mcf/d
·OIL Bbl/d
·OIL/GAS
·WATER Bbls/d
RateTime
Semi Log
EUR 402,981
Cum 266,108
Rem 136,873
Rem% 34.0%
Yrs 18.33
Date 1/1/1999
Act 0
Qmo 1,139
Q 36.9
n 0
De 6.947
Qab 10
GetQual 99PDP
Major = GAS

OFFSET MV

Page No.: 1
Print Time: Tue Feb 09 10:57:13 1999
Property ID: 2811
Property Name: GRENIER B | 4A | 25683-1
Table Name: K:\ARIES\RR99PDP\TEST.DBF

--DATE--	PHA	M	FWHP- Psi	M	FBHP- Psi	M	SIWHP Psi	M	SIBHP Psi
07/05/81			0.0				1117.0		0.0
03/24/82			260.0				743.0		0.0
08/24/83			294.0				515.0		0.0
04/04/84			255.0				443.0		0.0
03/12/86			235.0				352.0		0.0
08/30/89			205.0				458.0		0.0
06/19/91							366.0		
11/12/91			213.0				378.0		0.0
05/31/93			178.0				366.0		0.0

Page No.: 1
Print Time: Tue Feb 09 10:58:27 1999
Property ID: 10095
Property Name: FEUILLE A | 5E | 53977A-1
Table Name: K:\ARIES\RR99PDP\TEST.DBF

DK

--DATE--	PHA	M_FWHP- Psi	M_FBHP- Psi	M_SIWHP Psi	M_SIBHP Psi
07/05/84				1540.0	
10/11/85		283.0		840.0	0.0
06/03/86		320.0		726.0	0.0
06/02/87		300.0		637.0	0.0
10/14/88		278.0		605.0	0.0
04/09/90		310.0		504.0	0.0
04/15/93				516.0	

FDG055M4 3035 WELL PRODUCTION 8/8'S VOLUME offset MW 02/09/99 11:54:08

END OF DATA

DP NO: 25683_ DATE: 990103 (YYMMDD FORMAT)

GRENIER B 4A SCROLL FORWARD BY DATE: _

S E L	DATE PRODUCED	HOURS ON	-OIL PRODN- (BOPD	BOPM)	-GAS PRODN- (MCFD	MCFM)	-WATER PRODN- (BWPD	BWPM)
_	01/03/99	0.0	0.24	0.72	77	231	0.00	0.00
_	01/04/99	0.0	0.24	0.96	77	308	0.00	0.00
_	01/05/99	0.0	0.24	1.20	77	385	0.00	0.00
_	01/06/99	0.0	0.24	1.44	77	462	0.00	0.00
_	01/07/99	0.0	0.24	1.68	77	539	0.00	0.00
_	01/08/99	0.0	0.24	1.92	77	616	0.00	0.00
_	01/09/99	0.0	0.24	2.16	77	693	0.00	0.00
_	01/10/99	0.0	0.24	2.40	77	770	0.00	0.00
_	01/11/99	0.0	0.24	2.64	77	847	0.00	0.00
_	01/12/99	0.0	0.24	2.88	77	924	0.00	0.00
_	01/13/99	0.0	0.24	3.12	77	1001	0.00	0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF6=NRI PF10=BROWSE MENU PF11=INQ/UPDATE MENU

PF12=MAIN MENU ENTER=BACKWARDS PF24=HELP

FDG055M4 3029 WELL PRODUCTION 8/8'S VOLUME DK 02/09/99 12:00:48
END OF DATA
DP NO: 53977A DATE: 990103 (YYMMDD FORMAT)
FEUILLE A 5E SCROLL FORWARD BY DATE: _
S

E L	DATE PRODUCED	HOURS ON	-OIL PRODN- (BOPD	BOPM)	-GAS PRODN- (MCFD	MCFM)	-WATER PRODN- (BWPD	BWPM)
_	01/03/99	0.0	0.00	0.00	23	69	0.00	0.00
_	01/04/99	0.0	0.00	0.00	23	92	0.00	0.00
_	01/05/99	0.0	0.00	0.00	23	115	0.00	0.00
_	01/06/99	0.0	0.00	0.00	23	138	0.00	0.00
_	01/07/99	0.0	0.00	0.00	23	161	0.00	0.00
_	01/08/99	0.0	0.00	0.00	23	184	0.00	0.00
_	01/09/99	0.0	0.00	0.00	23	207	0.00	0.00
_	01/10/99	0.0	0.00	0.00	23	230	0.00	0.00
_	01/11/99	0.0	0.00	0.00	23	253	0.00	0.00
_	01/12/99	0.0	0.00	0.00	23	276	0.00	0.00
_	01/13/99	0.0	0.00	0.00	23	299	0.00	0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF6=NRI PF10=BROWSE MENU PF11=INQ/UPDATE MENU
PF12=MAIN MENU ENTER=BACKWARDS PF24=HELP

OFFSET M.V.

OPR008M2 3035 O008 CHROMATOGRAPH GAS SAMPLE DETAIL 11:55:03.8 02/09/99

	MOL %	GPM (AT 14.73)
HYDROGEN		
HELIUM		
NITROGEN	0.31	
OXYGEN		
HYDROGEN SULFIDE		
CARBON DIOXIDE	0.59	
METHANE	82.17	
ETHANE	9.89	2.6456
PROPANE	4.06	1.1189
ISO-BUTANE	0.70	0.2290
N-BUTANE	1.01	0.3185
ISO-PENTANE	0.37	0.1354
N-PENTANE	0.28	0.1014
HEXANE		
HEXANE PLUS	0.62	0.2705
HEPTANE PLUS		
TOTALS	100.00	4.8193

** DATA AT 14.730 PSIG UNLESS NOTED **

MP NUMBER 39303
EFFECTIVE DATE 19980101

-- GASOLINE CONTENT (GPM) --
26/70 GASOLINE
100% PROPANE
EXCESS BUTANES
TOTAL

----- SPECIFIC GRAVITY -----
CALCULATED 0.7040
MEASURED

SULPHER GRAINS / 100 CU FT

03=MAIN SCREEN 24=HELP PA1=TERMINATE

BTu 1230

FEUILLE A SE DK

OPR008M2 4732 O008 CHROMATOGRAPH GAS SAMPLE DETAIL 16:03:54.7 02/08/99

	MOL %	GPM (AT 14.73)
HYDROGEN		
HELIUM		
NITROGEN	0.51	
OXYGEN		
HYDROGEN SULFIDE		
CARBON DIOXIDE	0.77	
METHANE	86.16	
ETHANE	7.10	1.8993
PROPANE	3.08	0.8488
ISO-BUTANE	0.59	0.1930
N-BUTANE	0.79	0.2491
ISO-PENTANE	0.31	0.1134
N-PENTANE	0.22	0.0797
HEXANE		
HEXANE PLUS	0.47	0.2051
HEPTANE PLUS		
TOTALS	100.00	3.5884

** DATA AT 14.730 PSIG UNLESS NOTED **

MP NUMBER 95349
EFFECTIVE DATE 19930401

-- GASOLINE CONTENT (GPM) --
26/70 GASOLINE
100% PROPANE
EXCESS BUTANES
TOTAL

----- SPECIFIC GRAVITY -----
CALCULATED 0.6730
MEASURED

SULPHER GRAINS / 100 CU FT

03=MAIN SCREEN 24=HELP PA1=TERMINATE

BTU 1106.606

FEUILLE A #5E

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde

MV-Current

GAS GRAVITY	0.704
COND. OR MISC. (C/M)	C
%N2	0.31
%CO2	0.59
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5811
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	134
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	366
BOTTOMHOLE PRESSURE (PSIA)	424.2

MV-Original

GAS GRAVITY	0.704
COND. OR MISC. (C/M)	C
%N2	0.31
%CO2	0.59
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5811
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	134
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1117
BOTTOMHOLE PRESSURE (PSIA)	1323.8

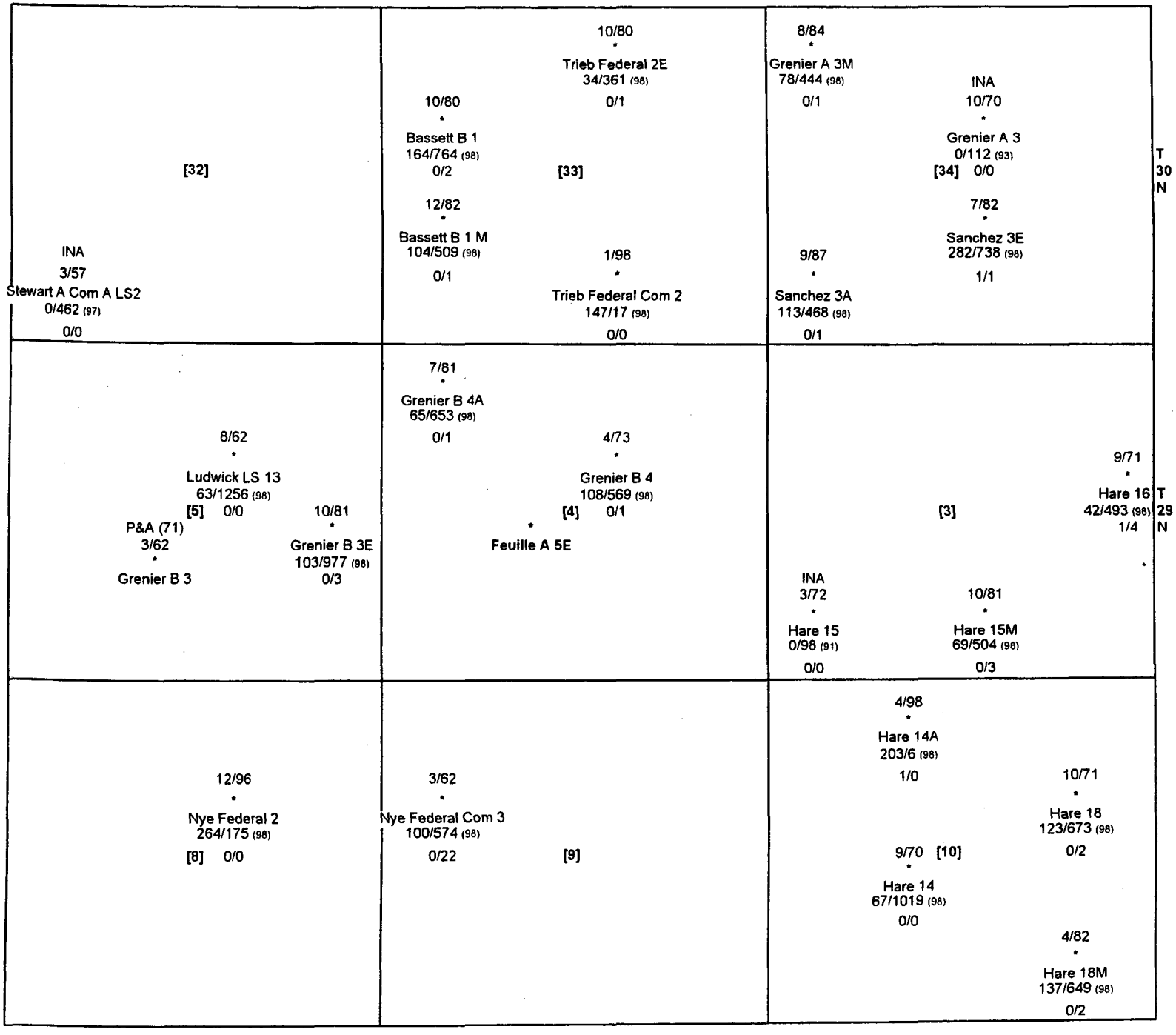
Dakota

DK-Current

GAS GRAVITY	0.673
COND. OR MISC. (C/M)	C
%N2	0.51
%CO2	0.77
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	6975
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	147
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	366
BOTTOMHOLE PRESSURE (PSIA)	432.2

DK-Original

GAS GRAVITY	0.673
COND. OR MISC. (C/M)	C
%N2	0.51
%CO2	0.77
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	6975
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	147
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1117
BOTTOMHOLE PRESSURE (PSIA)	1347.8



DATE: February 04,1999

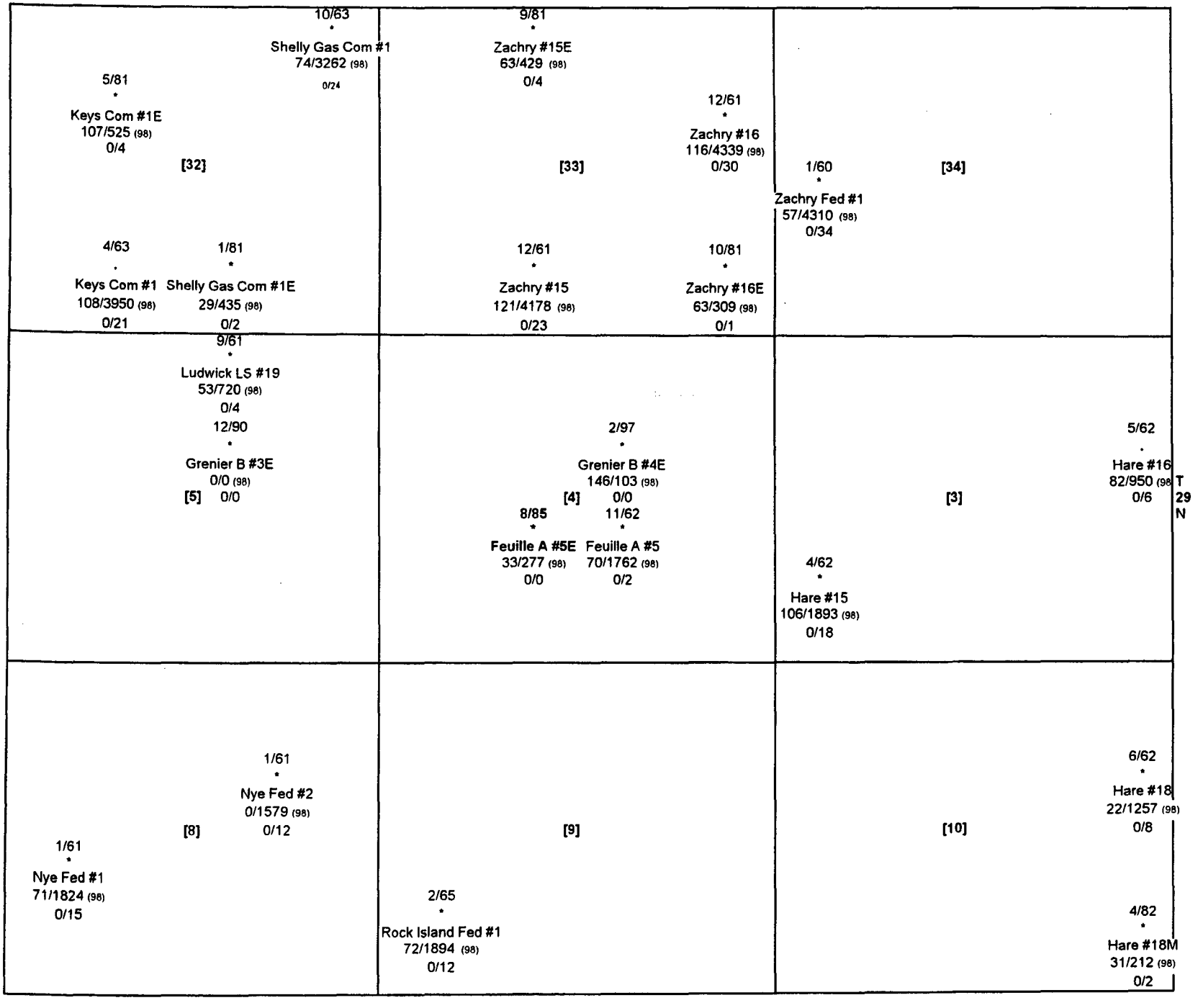
NAME: FEUILLE A NO,. 5E

FORM: MESAVERDE

LOCATION
UNIT: K
SEC: 4
TWN: 29N
RNG: 10W

LEGEND
COMPLETION DATE
*
WELL NAME
MCF/D - CUM(MMF)
BOP/D - CUM(MBO)

R-10-W



DATE: February 08,1999

NAME: FEUILLE A #5E

FORM: DAKOTA

LOCATION
UNIT: K
SEC: 4
TWN: 29N
RNG: 10W

LEGEND

COMPLETION DATE
*
WELL NAME
MCF/D-CUM(MMF)
BOP/D-CUM(MBO)

R-10-W