

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 & GAS COMPANY

PO Box 4289, Farmington, NM 87499

Operator

Address

McCLANAHAN

15E Unit O, Sec. 14, T28N, R10W

San Juan County

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 18577 API NO. 30-045-24108 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	Mesa Verde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	4190' - 4390'		6263' - 6434'
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. 274 Psia @ 4295' (Original) b. 1313 Psia @ 4295		a. 679 Psia @ 6349' b. 1432 Psia @ 6349'
6. Oil Gravity (°API) or Gas BTU Content	1253		1254
7. Producing or Shut-In?	Producing		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 * If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: Rates: Date: 6/15/97 Rates: 61 MCFD	Date: Rates: Date: Rates:	Date: Rates: Date: 6/15/97 Rates: 176 MCFD
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: Gas: supplied upon completion	Oil: % Gas: %	Oil: Gas: 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? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flow production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No13. Will the value of production be decreased by commingling? ☐ Yes ☒ 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. ☐ 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 Kevin L. Midkiff TITLE Operations Engineer DATE 06-23-97

TYPE OR PRINT NAME Kevin L. Midkiff TELEPHONE NO. (505) 326-9700

All distances must be from the outer boundaries of the Section

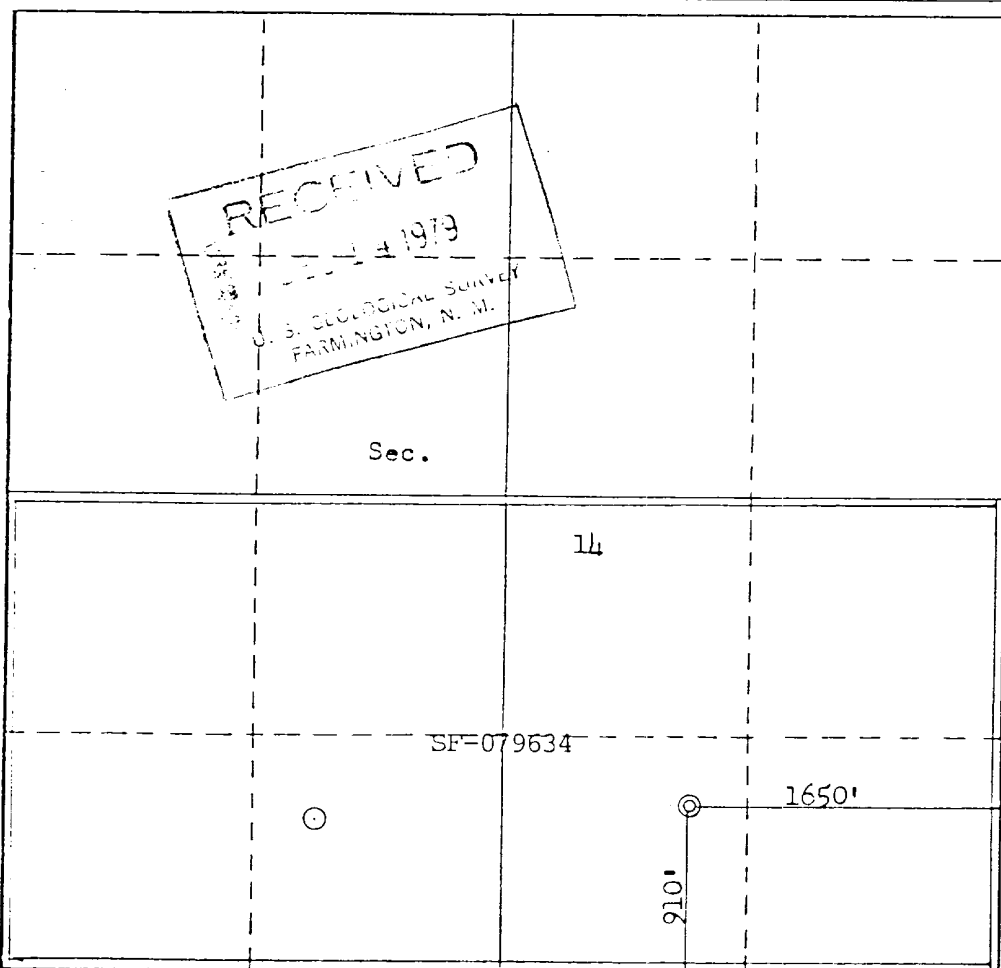
Operator SOUTHLAND ROYALTY COMPANY			Lease McCLANAHAN		Well No. 15-E
Unit Letter 0	Section 14	Township 28N	Range 10W	County San Juan	
Actual Footage Location of Well:					
910 feet from the South line and		1650 feet from the East line			
Ground Level Elev. 5737	Producing Formation Dakota / Mesa Verde		Pool Basin / Blanco		Dedicated Acreage: 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

Name
Curtis C. Parsons

Position
District Engineer

Company
Southland Royalty Company

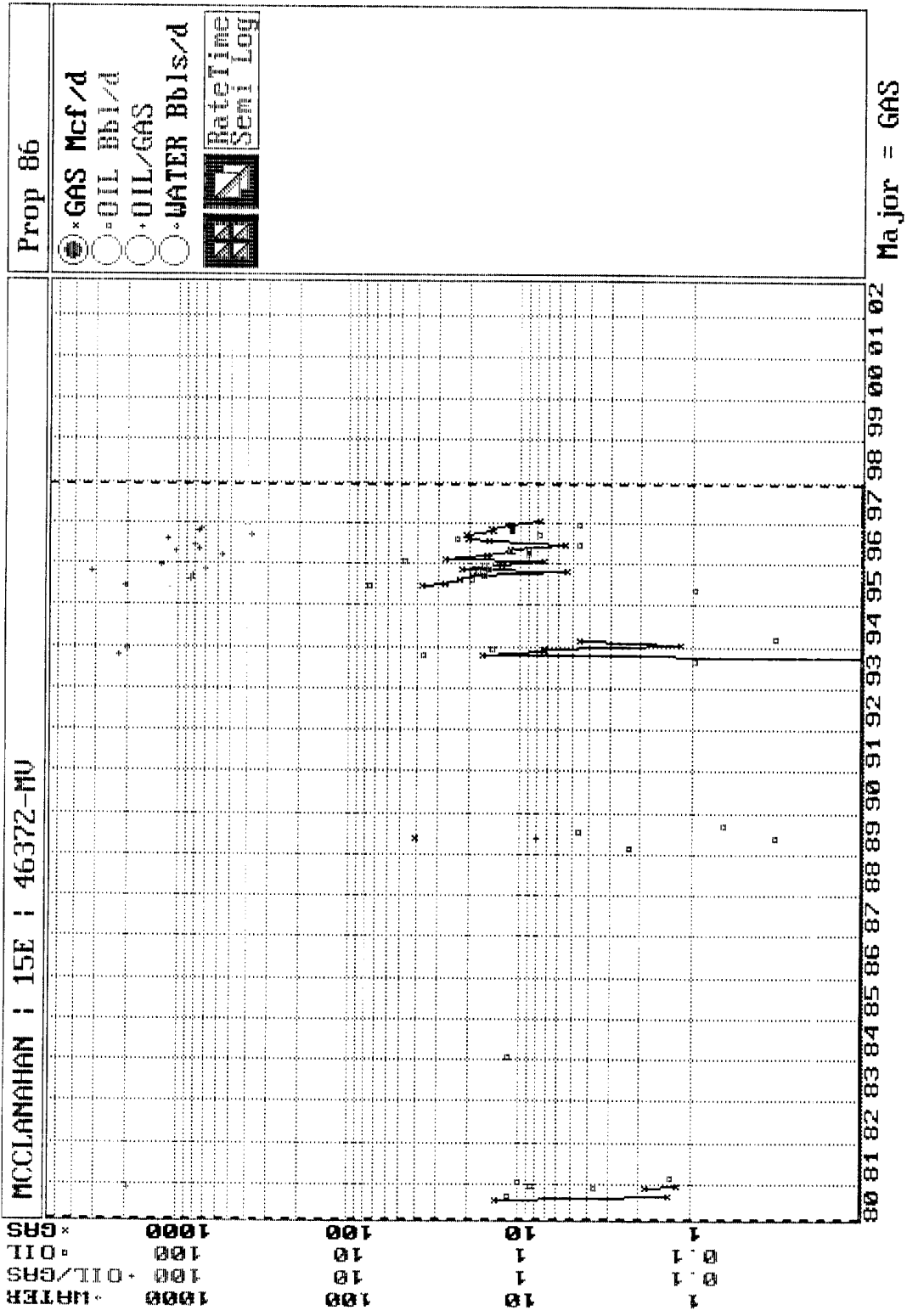
Date
December 4, 1979

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.

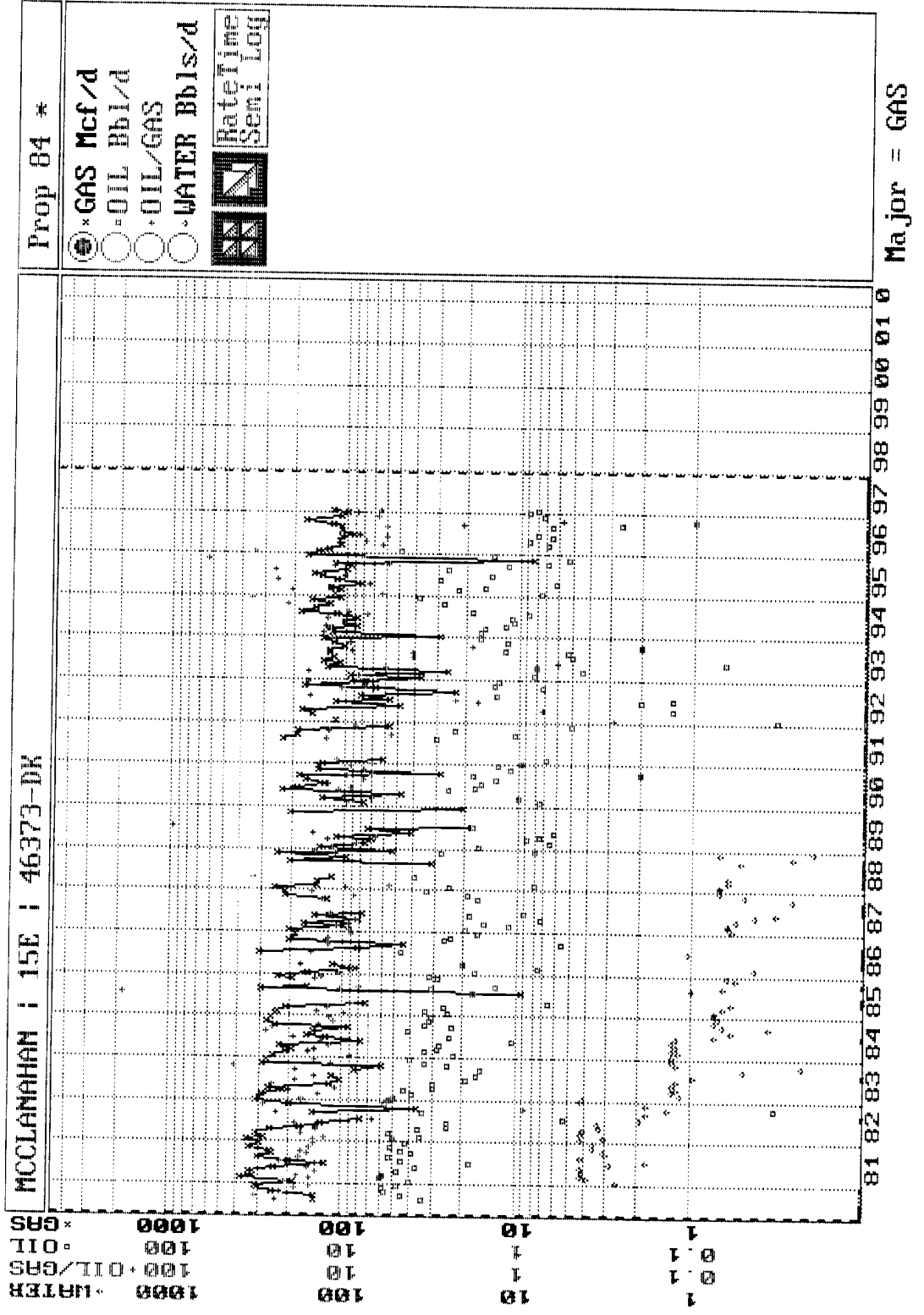
Date Surveyed
October 30, 1979

Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr Jr.

Certificate No.
3950



Major = GAS



Major = GAS

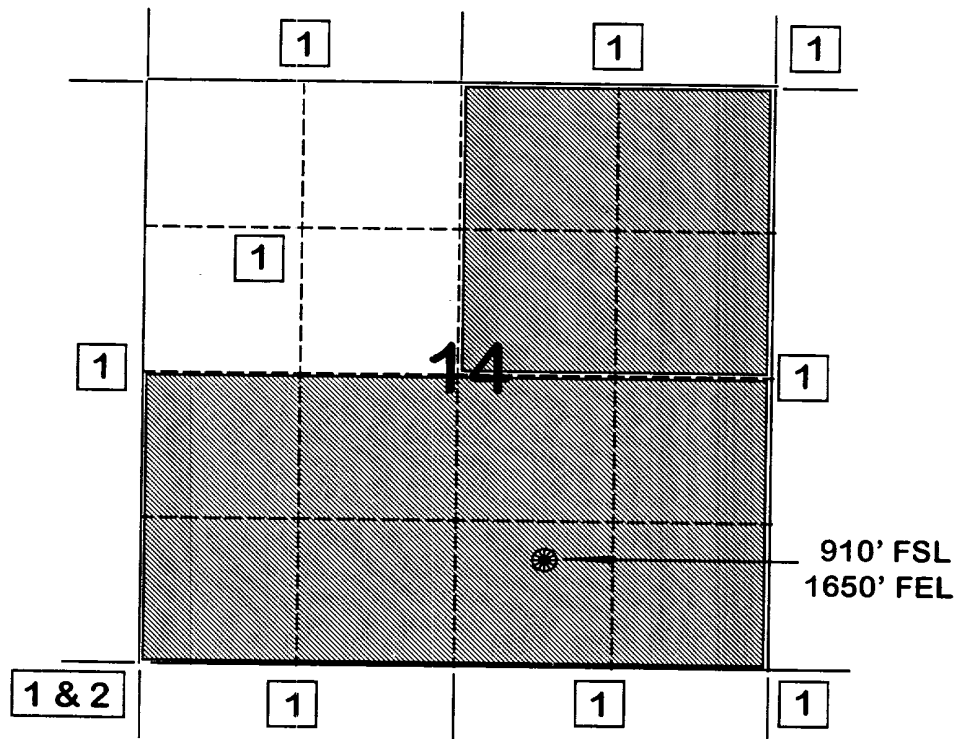
BURLINGTON RESOURCES OIL AND GAS COMPANY

McClanahan #15E

OFFSET OPERATOR \ OWNER PLAT

Mesaverde (E/2)/Dakota (S/2) Formations Commingle Well

Township 28 North, Range 10 West



1) Burlington Resources Oil and Gas Company

2) Amoco Production Company

Attn: Bruce Zimney

P.O. Box 800

Denver, CO 80201

McClanahan #15E
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Mesa Verde		Dakota	
<u>MV - Current</u>		<u>DK - Current</u>	
GAS GRAVITY	0.735	GAS GRAVITY	0.755
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.59	%N2	0.71
%CO2	0.42	%CO2	1.55
%H2S	0	%H2S	0
DIAMETER (IN)	1.5	DIAMETER (IN)	2.063
DEPTH (FT)	4295	DEPTH (FT)	6349
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	123	BOTTOMHOLE TEMPERATURE (DEG F)	152
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	245	SURFACE PRESSURE (PSIA)	568
BOTTOMHOLE PRESSURE (PSIA)	274.2	BOTTOMHOLE PRESSURE (PSIA)	678.7
<u>MV - Original</u>		<u>DK - Original</u>	
GAS GRAVITY	0.735	GAS GRAVITY	0.755
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.59	%N2	0.71
%CO2	0.42	%CO2	1.55
%H2S	0	%H2S	0
DIAMETER (IN)	1.5	DIAMETER (IN)	2.063
DEPTH (FT)	4295	DEPTH (FT)	6349
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	123	BOTTOMHOLE TEMPERATURE (DEG F)	152
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1146	SURFACE PRESSURE (PSIA)	1172
BOTTOMHOLE PRESSURE (PSIA)	1313.3	BOTTOMHOLE PRESSURE (PSIA)	1431.7

3/25/97: Mesa Verde 24 hour SICP: 245#.

Organize Data ScreenGraph Economics Report Plot Utility Quit
 Editing: MCCLANAHAN | 15E | 46373-DK Property No.: 84
 Table(T): TEST/M,P,H,T,Z,C,A,O,D,1,2,3,B,U,S Rec: 1/8/585
 Item: 3/4/33 Name: TIME Type: Character Len: 5/32/203

--DATE--	TIME-	---CUM GAS--	M SIWHP
		Mcf	Psi
04/30/80		0	1172.0
10/16/80		16337	1013.0
06/09/82		180280	589.0
07/24/83		246595	664.0
09/13/85		370240	601.0
09/28/88		493988	567.0
10/02/90		565617	492.0
06/03/92		619411	568.0

F1=Help F3=PrvProp F5=PrvTbl F7=InsRcd F9=Utils Alt+TableLtr=Change Table
 F2=Jump F4=NxtProp F6=NxtTbl F8=DelRcd F10=Exit Shift+<- ->=Fast Tbl R & L

FDG055M4 S004

WELL PRODUCTION 8/8'S VOLUME

06/17/97 08:01:07

START OF DATA

DP NO: 46372_ *MESA VERDE*

DATE: 970615 (YYMMDD FORMAT)

MCCLANAHAN

15E

SCROLL FORWARD BY DATE: _

S

E	DATE	HOURS	-OIL PROD-	-GAS PROD-	-WATER PROD-
L	PRODUCED	ON	(BOPD BOPM)	(MCFD MCFM)	(BWPD BWPM)
-	06/15/97	24.0	0.31 4.65	61 704	0.00 0.00
-	06/14/97	24.0	0.31 4.34	61 643	0.00 0.00
-	06/13/97	24.0	0.31 4.03	61 582	0.00 0.00
-	06/12/97	24.0	0.31 3.72	54 521	0.00 0.00
-	06/11/97	24.0	0.31 3.41	54 467	0.00 0.00
-	06/10/97	24.0	0.31 3.10	54 413	0.00 0.00
-	06/09/97	24.0	0.31 2.79	43 359	0.00 0.00
-	06/08/97	24.0	0.31 2.48	43 316	0.00 0.00
-	06/07/97	24.0	0.31 2.17	43 273	0.00 0.00
-	06/06/97	24.0	0.31 1.86	43 230	0.00 0.00
-	06/05/97	24.0	0.31 1.55	37 187	0.00 0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF12=MAIN MENU
B MY JOB

PF6=NRI PF10=BROWSE MENU
ENTER=BACKWARDS
LU #6

PF11=INQ/UPDATE MENU
PF24=HELP

FDG055M4 S004

WELL PRODUCTION 8/8'S VOLUME

06/17/97 08:01:50

START OF DATA

DP NO: 46373_ *DAKOTA*

DATE: 970615 (YYMMDD FORMAT)

MCCLANAHAN

15E

SCROLL FORWARD BY DATE: _

S

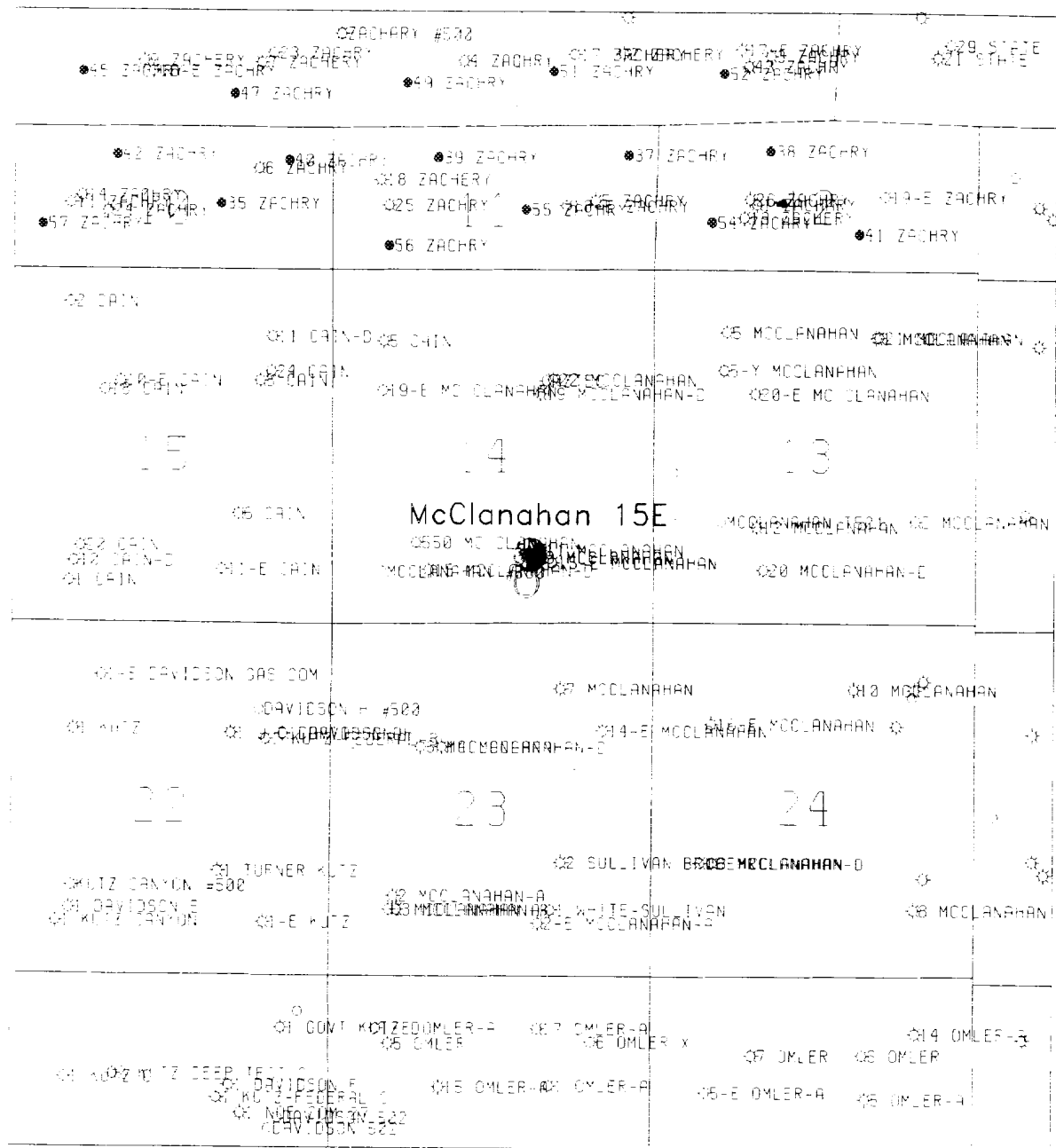
E	DATE	HOURS	-OIL PROD-	-GAS PROD-	-WATER PROD-
L	PRODUCED	ON	(BOPD BOPM)	(MCFD MCFM)	(BWPD BWPM)
-	06/15/97	24.0	0.00 0.00	176 2547	0.00 0.00
-	06/14/97	24.0	0.00 0.00	176 2371	0.00 0.00
-	06/13/97	24.0	0.00 0.00	176 2195	0.00 0.00
-	06/12/97	24.0	0.00 0.00	189 2019	0.00 0.00
-	06/11/97	24.0	0.00 0.00	189 1830	0.00 0.00
-	06/10/97	24.0	0.00 0.00	189 1641	0.00 0.00
-	06/09/97	24.0	0.00 0.00	181 1452	0.00 0.00
-	06/08/97	24.0	0.00 0.00	34 1271	0.00 0.00
-	06/07/97	24.0	0.00 0.00	34 1237	0.00 0.00
-	06/06/97	24.0	0.00 0.00	103 1203	0.00 0.00
-	06/05/97	24.0	0.00 0.00	172 1100	0.00 0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF12=MAIN MENU
B MY JOB

PF6=NRI PF10=BROWSE MENU
ENTER=BACKWARDS
LU #6

PF11=INQ/UPDATE MENU
PF24=HELP



McClanahan 15E
 Sec 140 T28N R10W
 Mesaverde Dakota