

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

14E Unit H, Sec. 23, T028N, R10W

San Juan County

Lessee

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 18577 API NO30-045-23913 Federal ☒ 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	Otero Chacra - 82329		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	2818' - 2938'		6216' - 6386'
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. 176.6 Psia @ 2878' (Original) b. 1101.9 Psia @ 2878'		a. 486.2 Psia @ 6449' b. 1442.6 Psia @ 6449'
6. Oil Gravity (°API) or Gas BTU Content	1142		1137
7. Producing or Shut-In?	Producing		S/I
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 of recent test (within 60 days)	Date: Rates: Date: 6/15/97 Rates: 67 MCFD	Date: Rates: Date: Rates:	Date: 5/94 Rates: 2 MCFD Date: 5/94 Rates: S/i since 5/94
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, attach 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 ☐ No
11. 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 ☐ No
13. 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.

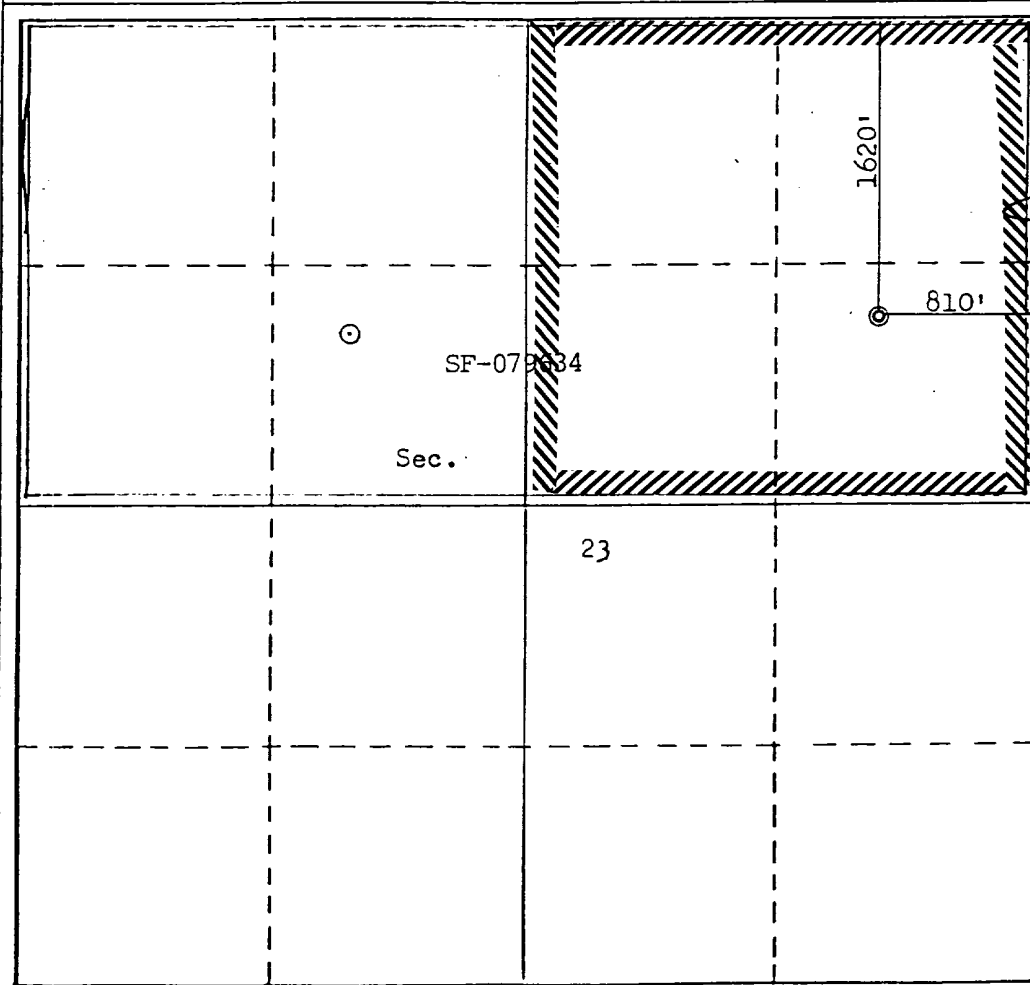
Operator SOUTHLAND ROYALTY COMPANY			Lease McCLANAHAN		Well No. 14-E
Unit Letter H	Section 23	Township 28N	Range 10W	County San Juan	
Actual Footage Location of Well: 1620 feet from the North line and 810 feet from the East line					
Ground Level Elev. 5708	Producing Formation Dakota - Mesa Verde /Ch		Pool Basin - Blanco		Dedicated Acreage: 320 / 160 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

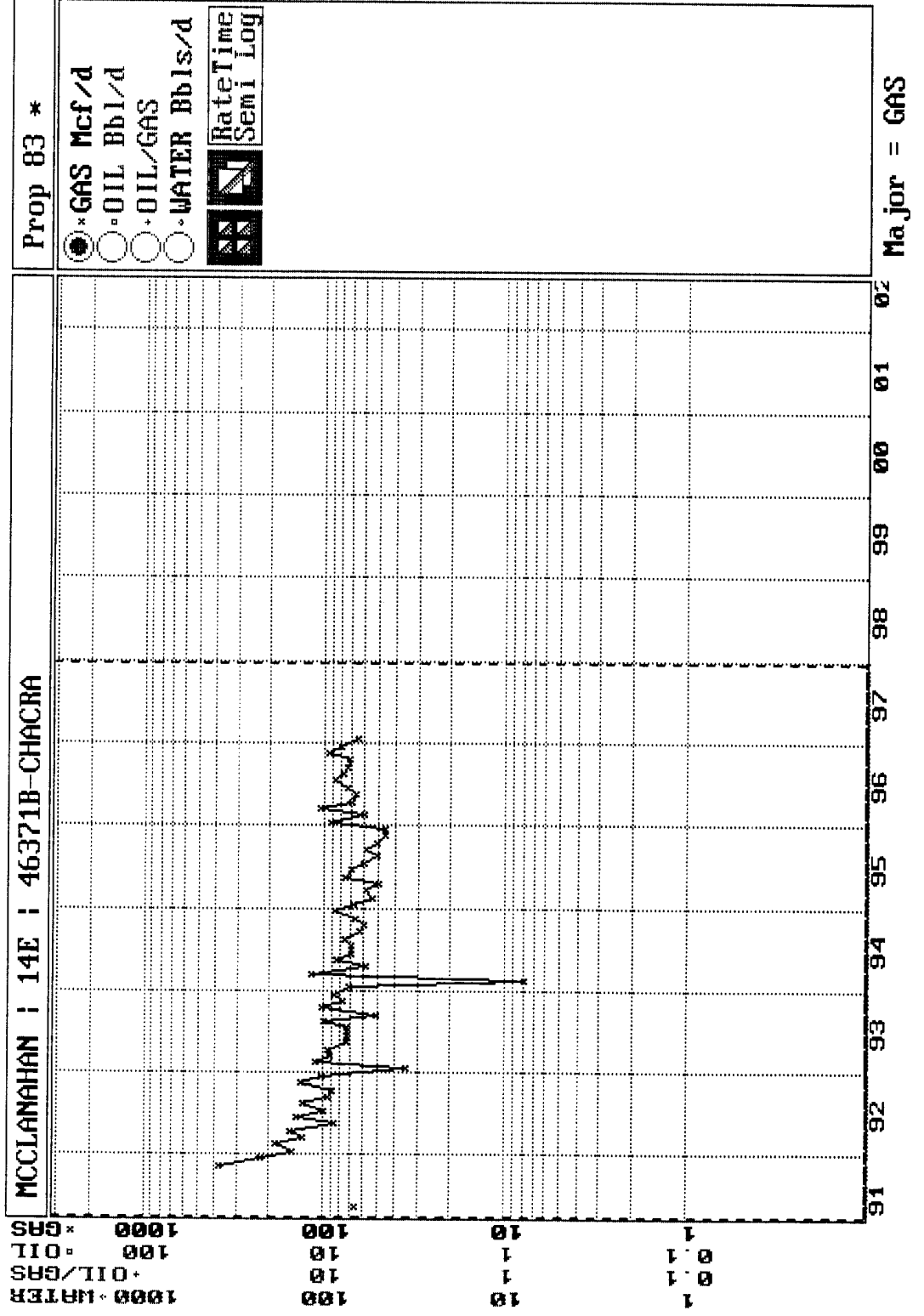
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

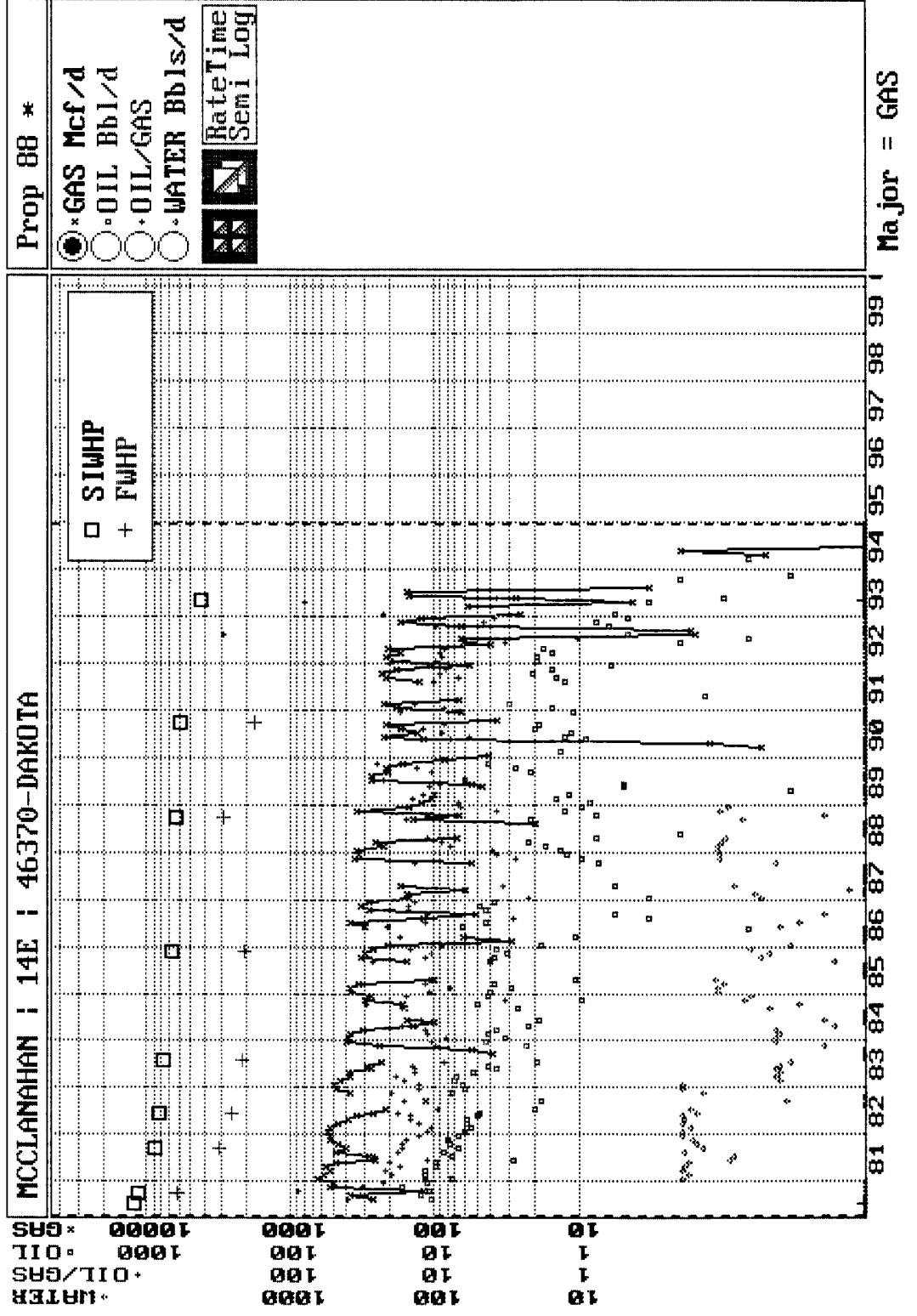
Name _____
District Production Manager
Position
Southland Royalty Company
Company
October 24, 1979
Date

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
October 22, 1979
Registered Professional Engineer
and/or Surveyor
Fred B. Kerr Jr.
Certificate No. _____

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



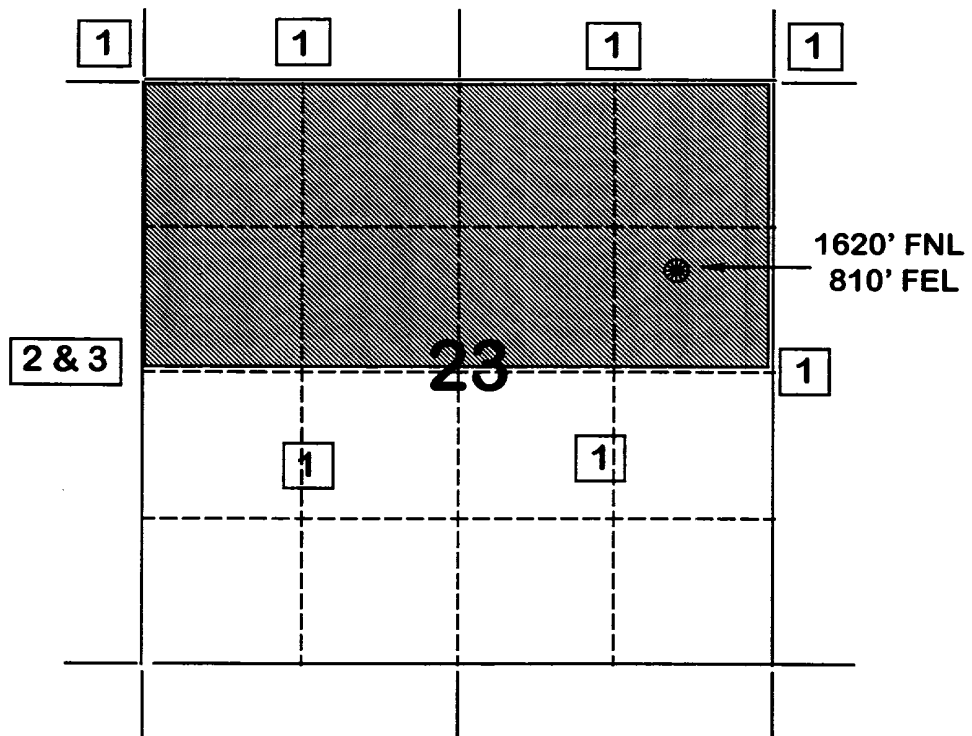


BURLINGTON RESOURCES OIL AND GAS COMPANY

**McClanahan #14E
OFFSET OPERATOR \ OWNER PLAT**

Chacra (NE/4)/Dakota (N/2) Formations Commingle Well

Township 28 North, Range 10 West



- 1) Burlington Resources Oil and Gas Company
- 2) Universal Resources Company
1331 17th Street, Suite 300
Denver, CO 80202
- 3) Amoco Production Company
Attn: Bruce Zimney
P.O. Box 800
Denver, CO 80201

McClanahan #14E
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Dakota		Chacra	
<u>DK-Current</u>		<u>Chacra-Current</u>	
GAS GRAVITY	<u>0.655</u>	GAS GRAVITY	<u>0.66</u>
COND. OR MISC. (C/M)	<u>C</u>	COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.4</u>	%N2	<u>0.57</u>
%CO2	<u>0.24</u>	%CO2	<u>0.24</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>1.5</u>	DIAMETER (IN)	<u>1.5</u>
DEPTH (FT)	<u>6301</u>	DEPTH (FT)	<u>2878</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>152</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>101</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>420</u>	SURFACE PRESSURE (PSIA)	<u>165</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>486.2</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>176.6</u>
<u>DK-Original</u>		<u>Chacra-Original</u>	
GAS GRAVITY	<u>0.655</u>	GAS GRAVITY	<u>0.66</u>
COND. OR MISC. (C/M)	<u>C</u>	COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.4</u>	%N2	<u>0.57</u>
%CO2	<u>0.24</u>	%CO2	<u>0.24</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>1.5</u>	DIAMETER (IN)	<u>1.5</u>
DEPTH (FT)	<u>6301</u>	DEPTH (FT)	<u>2878</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>152</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>101</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1223</u>	SURFACE PRESSURE (PSIA)	<u>1018</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>1442.6</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>1101.9</u>

3/25/97: Chacra 24 hour SICP: 165#.

DAKOTA

Organize Data ScreenGraph Economics Report Plot Utility Quit
Browsing: MCCLANAHAN | 14E | 46370-1 *DAKOTA* Property No.: 88
Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/9/585
Item: 2/4/33 Name: DATE Type: Date Len: 8/32/203

--DATE--	TIME-	---CUM GAS--	M SIWHP
		Mcf	Psi
07/01/80		0	1223.0
10/01/80		23237	1140.0
09/16/81		183704	885.0
06/09/82		307048	839.0
07/24/83		419475	784.0
12/04/85		582051	677.0
09/28/88		714451	632.0
10/03/90		809585	586.0
05/05/93	00005	895086	420.0

F1=Help F3=PrvPro F5=PrvTbl F7=Calcu F9=Utils Alt+TableLtr=Change Table
F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<- ->=Fast Tbl R & L

FDG055M4 S004

WELL PRODUCTION 8/8'S VOLUME

06/17/97 10:51:05

START OF DATA

DP NO: 46370

DAKOTA

DATE: 970615 (YYMMDD FORMAT)

MCCLANAHAN

14E

SCROLL FORWARD BY DATE: _

S

E	DATE	HOURS	-OIL PRODN-	-GAS PRODN-	-WATER PRODN-
L	PRODUCED	ON	(BOPD BOPM)	(MCFD MCFM)	(BWPD BWPM)
-	06/15/97	0.0	0.00 0.00	0 0	0.00 0.00
-	06/14/97	0.0	0.00 0.00	0 0	0.00 0.00
-	06/13/97	0.0	0.00 0.00	0 0	0.00 0.00
-	06/12/97	0.0	0.00 0.00	0 0	0.00 0.00
-	06/11/97	0.0	0.00 0.00	0 0	0.00 0.00
-	06/10/97	0.0	0.00 0.00	0 0	0.00 0.00
-	06/09/97	0.0	0.00 0.00	0 0	0.00 0.00
-	06/08/97	0.0	0.00 0.00	0 0	0.00 0.00
-	06/07/97	0.0	0.00 0.00	0 0	0.00 0.00
-	06/06/97	0.0	0.00 0.00	0 0	0.00 0.00
-	06/05/97	0.0	0.00 0.00	0 0	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

B MY JOB

LU #6

FDG055M4 S004

WELL PRODUCTION 8/8'S VOLUME

06/17/97 10:51:15

START OF DATA

DP NO: 46371b

CHACRA

DATE: 970615 (YYMMDD FORMAT)

MCCLANAHAN

14E

SCROLL FORWARD BY DATE: _

S

E	DATE	HOURS	-OIL PRODN-	-GAS PRODN-	-WATER PRODN-
L	PRODUCED	ON	(BOPD BOPM)	(MCFD MCFM)	(BWPD BWPM)
-	06/15/97	24.0	0.00 0.00	67 1010	0.00 0.00
-	06/14/97	24.0	0.00 0.00	67 943	0.00 0.00
-	06/13/97	24.0	0.00 0.00	67 876	0.00 0.00
-	06/12/97	24.0	0.00 0.00	67 809	0.00 0.00
-	06/11/97	24.0	0.00 0.00	70 742	0.00 0.00
-	06/10/97	24.0	0.00 0.00	70 672	0.00 0.00
-	06/09/97	24.0	0.00 0.00	70 602	0.00 0.00
-	06/08/97	24.0	0.00 0.00	70 532	0.00 0.00
-	06/07/97	24.0	0.00 0.00	70 462	0.00 0.00
-	06/06/97	24.0	0.00 0.00	70 392	0.00 0.00
-	06/05/97	24.0	0.00 0.00	70 322	0.00 0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF6=NRI

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PF12=MAIN MENU

ENTER=BACKWARDS

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B MY JOB

LU #6

