

DATE IN 6/25/97	SUSPENSE 7/15/97	ENGINEER DC	LOGGED KW	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

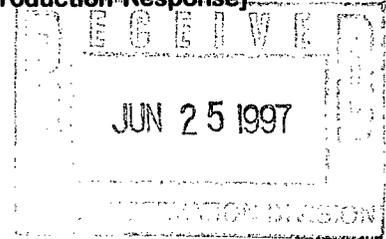
1634

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 Bradfield

 Print or Type Name Signature

Regulatory/Compliance Administrator

 Title

6/24/97

 Date

BURLINGTON RESOURCES

SAN JUAN DIVISION

June 24, 1997

SENT FEDERAL EXPRESS

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: McClanahan #15E
910'FSL, 1650'FEL, Section 14, T-28-N, R-10-W
30-045-24108

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Mesa Verde and Dakota in the subject well.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

1. Form C107A - Application for Downhole Commingling;
2. C-102 plat for each zone showing its spacing unit and acreage dedication;
3. Production curves for Mesa Verde and Dakota;
4. Notification list of offset operators;
5. Shut in wellhead pressure and calculated down hole pressure of surrounding wells;
6. Nine-section plats for the Mesa Verde and Dakota.

Working, overriding and royalty interests are identical in the commingled zones.

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

Sincerely,



Peggy Bradfield

Regulatory/Compliance Administrator

xc: Bureau of Land Management - hand delivered

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 :

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 (and/or) 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 and Pool Code, 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, 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 No

11. Will cross-flow occur? 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. 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

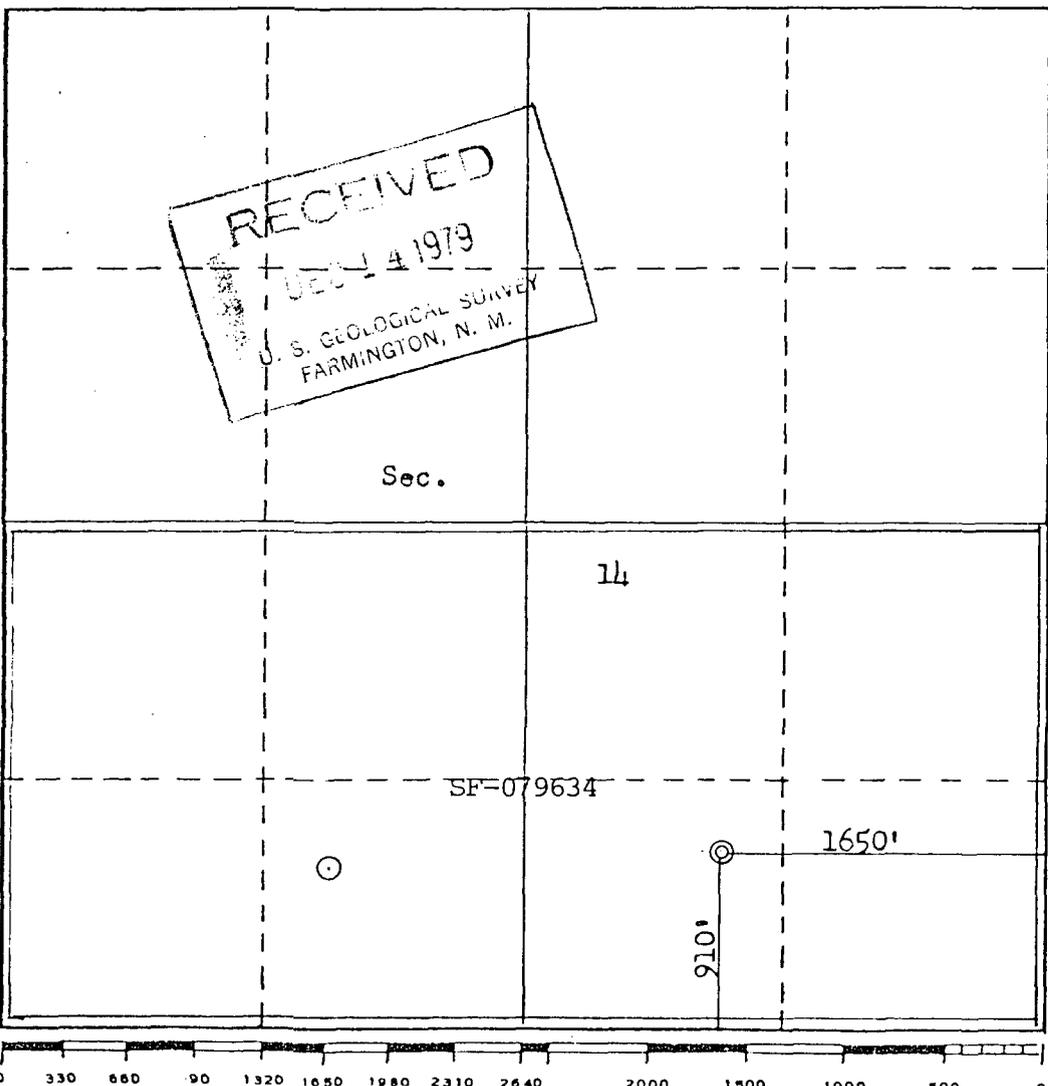
Operator SOUTHLAND ROYALTY COMPANY		Lease McCLANAHAN		Well No. 15-E
Unit Letter 0	Section 14	Township 28N	Range 10W	County San Juan
Actual Footage Location of Well: 910 feet from the South line and 1650 feet from the East line				
Ground Level Elev. 5737	Producing Formation Dakota / Mesa Verde	Pool Basin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

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

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

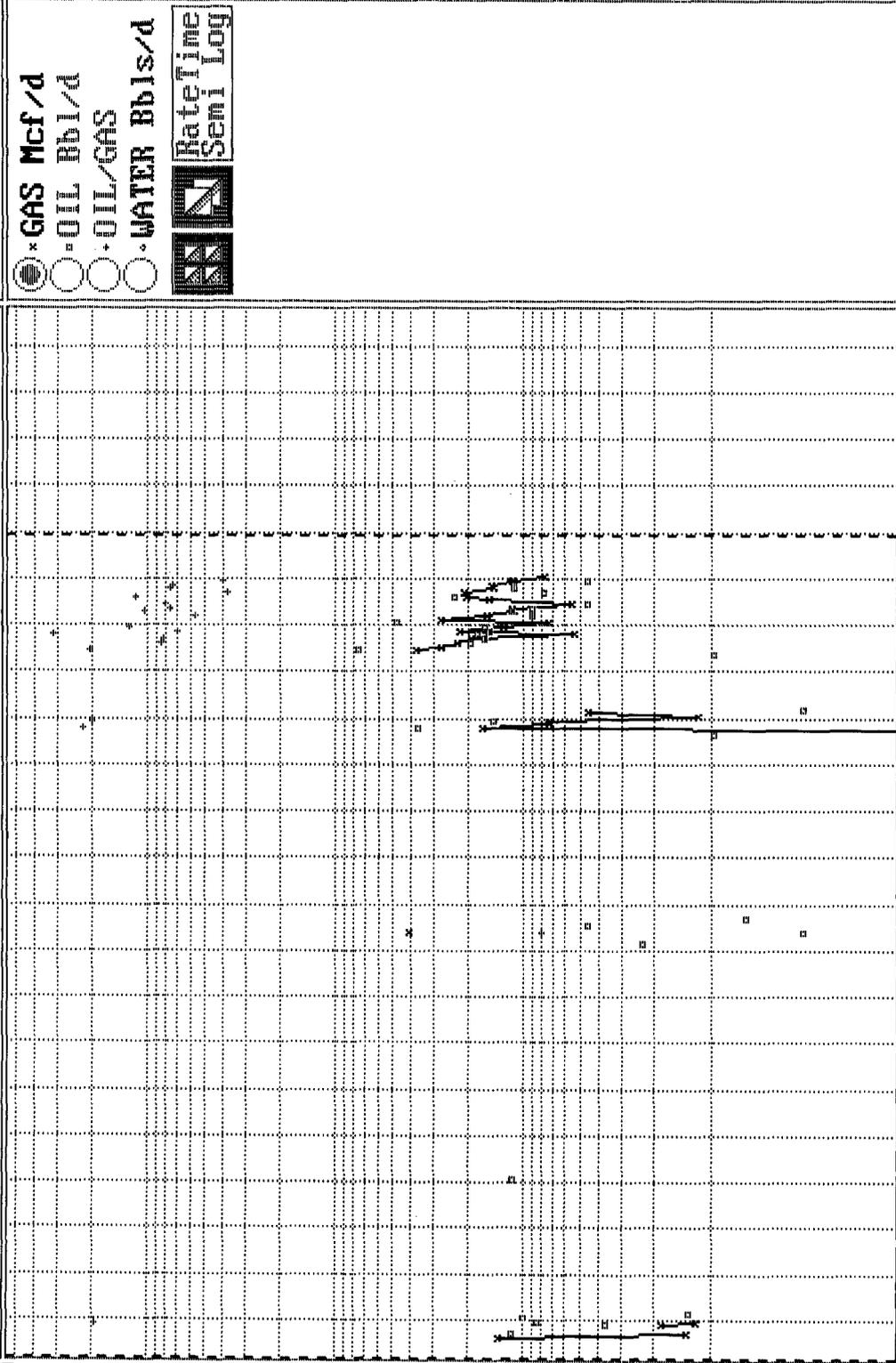
Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr Jr.

Certificate No.
3950

Prop 86

MCCLANAHAN 15E 1 46372-MU

1000 • WATER
 100 • OIL/GAS
 100 • OIL
 1000 • GAS



• GAS Mcf/d
 • OIL Bbl/d
 • OIL/GAS
 • WATER Bbls/d

RateTime
 Semi Log

Major = GAS

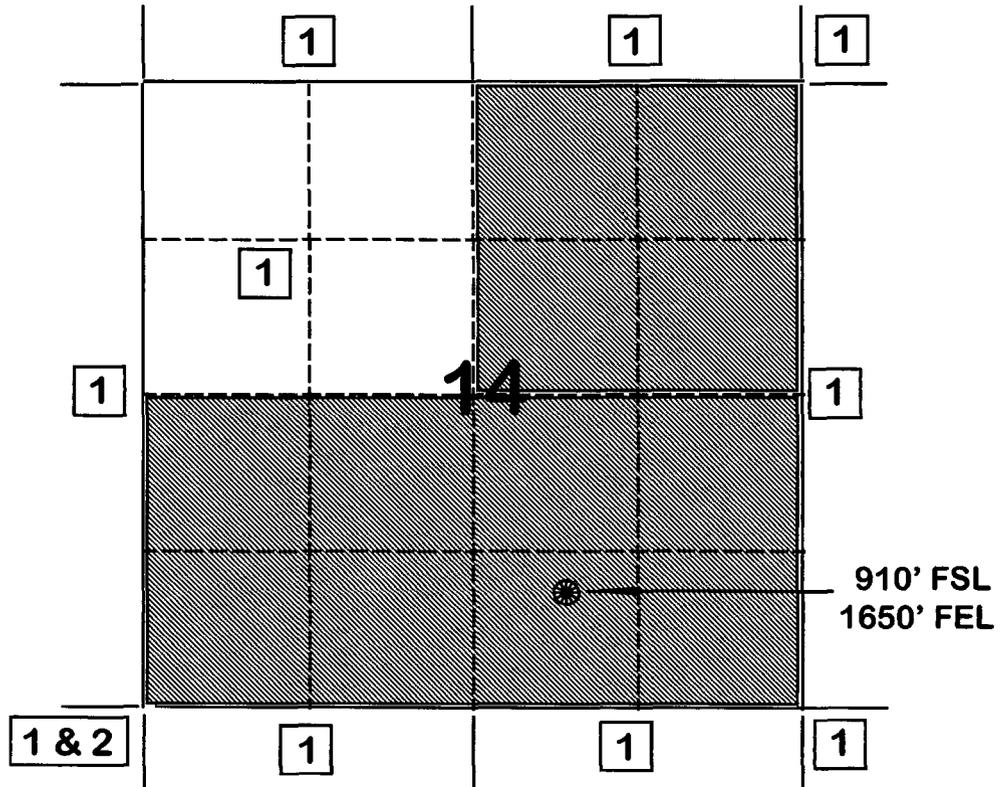
BURLINGTON RESOURCES OIL AND GAS COMPANY

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>																																																
<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 80%;">GAS GRAVITY</td><td style="text-align: right; border-bottom: 1px solid black;">0.735</td></tr> <tr><td>COND. OR MISC. (C/M)</td><td style="text-align: right; border-bottom: 1px solid black;">C</td></tr> <tr><td>%N2</td><td style="text-align: right; border-bottom: 1px solid black;">0.59</td></tr> <tr><td>%CO2</td><td style="text-align: right; border-bottom: 1px solid black;">0.42</td></tr> <tr><td>%H2S</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>DIAMETER (IN)</td><td style="text-align: right; border-bottom: 1px solid black;">1.5</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right; border-bottom: 1px solid black;">4295</td></tr> <tr><td>SURFACE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">60</td></tr> <tr><td>BOTTOMHOLE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">123</td></tr> <tr><td>FLOWRATE (MCFPD)</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>SURFACE PRESSURE (PSIA)</td><td style="text-align: right; border-bottom: 1px solid black;">245</td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; border: 1px solid black;">274.2</td></tr> </table>	GAS GRAVITY	0.735	COND. OR MISC. (C/M)	C	%N2	0.59	%CO2	0.42	%H2S	0	DIAMETER (IN)	1.5	DEPTH (FT)	4295	SURFACE TEMPERATURE (DEG F)	60	BOTTOMHOLE TEMPERATURE (DEG F)	123	FLOWRATE (MCFPD)	0	SURFACE PRESSURE (PSIA)	245	BOTTOMHOLE PRESSURE (PSIA)	274.2	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 80%;">GAS GRAVITY</td><td style="text-align: right; border-bottom: 1px solid black;">0.755</td></tr> <tr><td>COND. OR MISC. (C/M)</td><td style="text-align: right; border-bottom: 1px solid black;">C</td></tr> <tr><td>%N2</td><td style="text-align: right; border-bottom: 1px solid black;">0.71</td></tr> <tr><td>%CO2</td><td style="text-align: right; border-bottom: 1px solid black;">1.55</td></tr> <tr><td>%H2S</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>DIAMETER (IN)</td><td style="text-align: right; border-bottom: 1px solid black;">2.063</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right; border-bottom: 1px solid black;">6349</td></tr> <tr><td>SURFACE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">60</td></tr> <tr><td>BOTTOMHOLE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">152</td></tr> <tr><td>FLOWRATE (MCFPD)</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>SURFACE PRESSURE (PSIA)</td><td style="text-align: right; border-bottom: 1px solid black;">568</td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; border: 1px solid black;">678.7</td></tr> </table>	GAS GRAVITY	0.755	COND. OR MISC. (C/M)	C	%N2	0.71	%CO2	1.55	%H2S	0	DIAMETER (IN)	2.063	DEPTH (FT)	6349	SURFACE TEMPERATURE (DEG F)	60	BOTTOMHOLE TEMPERATURE (DEG F)	152	FLOWRATE (MCFPD)	0	SURFACE PRESSURE (PSIA)	568	BOTTOMHOLE PRESSURE (PSIA)	678.7
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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

<u>--DATE--</u>	<u>TIME-</u>	<u>---CUM GAS--</u>	<u>M SIWHP</u>
		<u>Mcf</u>	<u>Psi</u>
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
START OF DATA

WELL PRODUCTION 8/8'S VOLUME

06/17/97 08:01:07

DP NO: 46372_ *MESA VERDE*
MCCLANAHAN

15E

DATE: 970615 (YYMMDD FORMAT)
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	0.31	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 PF11=INQ/UPDATE MENU
ENTER=BACKWARDS LU #6 PF24=HELP

FDG055M4 S004
START OF DATA

WELL PRODUCTION 8/8'S VOLUME

06/17/97 08:01:50

DP NO: 46373_ *DAKOTA*
MCCLANAHAN

15E

DATE: 970615 (YYMMDD FORMAT)
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	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 PF11=INQ/UPDATE MENU
ENTER=BACKWARDS LU #6 PF24=HELP

