

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

811 South First St., Artesia, NM 88210-2836

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

HAMPTON

4M

N, Sec. 13, T30N, R11W

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7074 API NO. 30-045-25810 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	Mesa Verde - 72319		Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	4888'-5123'		7010'-7110'
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: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated or Measured Original	(Current) a. 299 Psia @ 5006' (Original) b. 964 Psia		a. 534 Psia @ 7060' b. 2893 Psia
6. Oil Gravity (°API) or Gas BTU Content	1170		1147
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	Date: Rates:	Date: Rates:	Date: Rates:
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: 6/10/97 Rates: 71 MCFD	Date: Rates:	Date: 6/10/97 Rates: 116 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 ☐ 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 06-23-97TYPE OR PRINT NAME Kevin L. Midkiff TELEPHONE NO. (505) 326-9700

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-107
Revised 10-1-77

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

Operator Southland Royalty Company			Lease Hampton		Well No. LM
Unit Letter N	Section 13	Township 30N	Range 11W	County San Juan	
Actual Footage Location of Well: 970 feet from the South line and 1680 feet from the West line					
Ground Level Elev. 6124' GL	Producing Formation Dakota/Mesaverde		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 Communitization

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.

FEE	SF-078198	
FEE	Sec	
FEE	13	
1680'	SF-078198	

Scale: 1"=1000'

CERTIFICATION

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

R. E. Fielder

Name

R. E. Fielder

Position

District Engineer

Company

Southland Royalty Company

Date

August 9, 1983

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

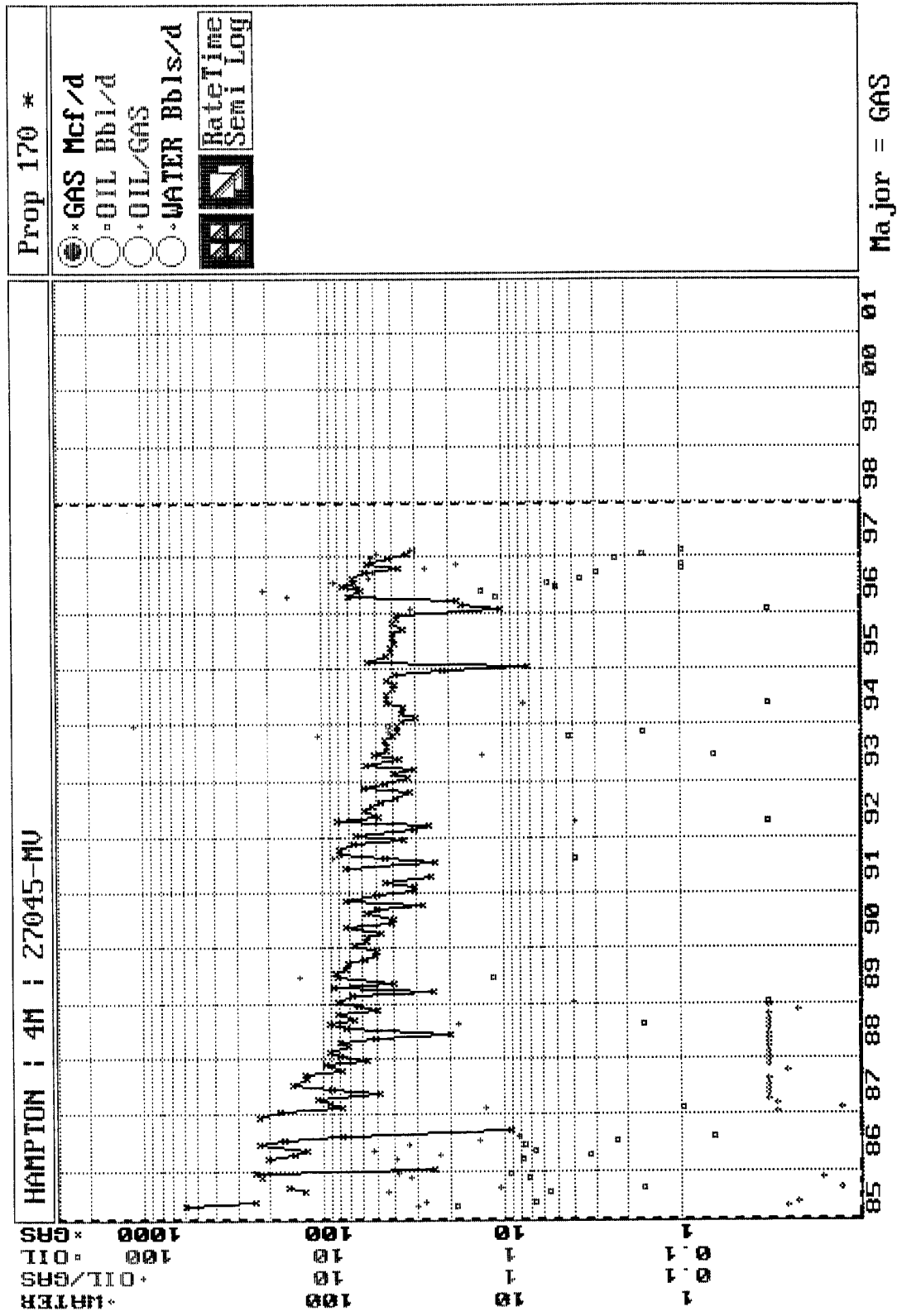
Reissue Plat-February 7, 1983

Registered Professional Engineer and Land Surveyor

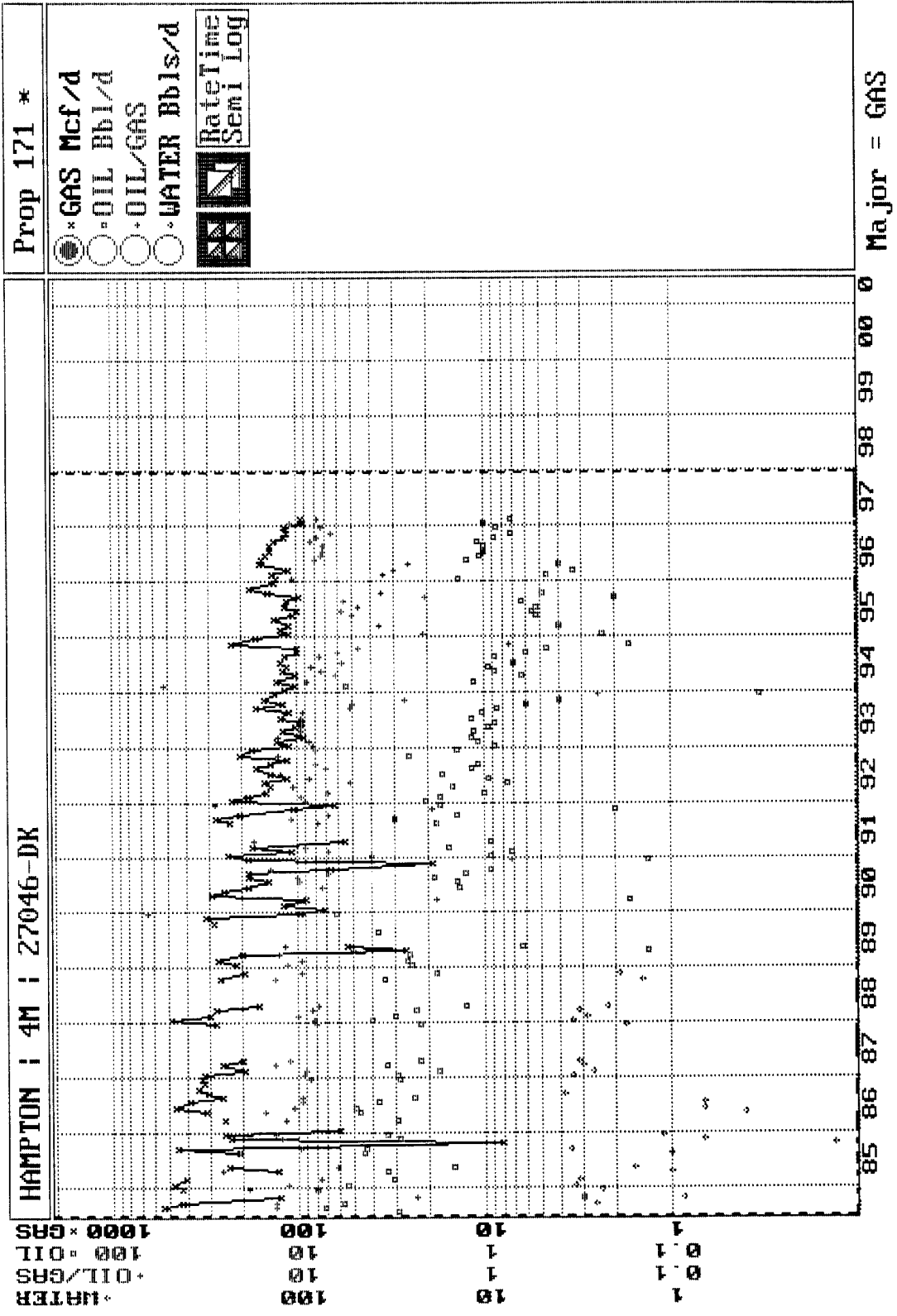
Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No. 11,000, N.M.

3950



Major = GAS

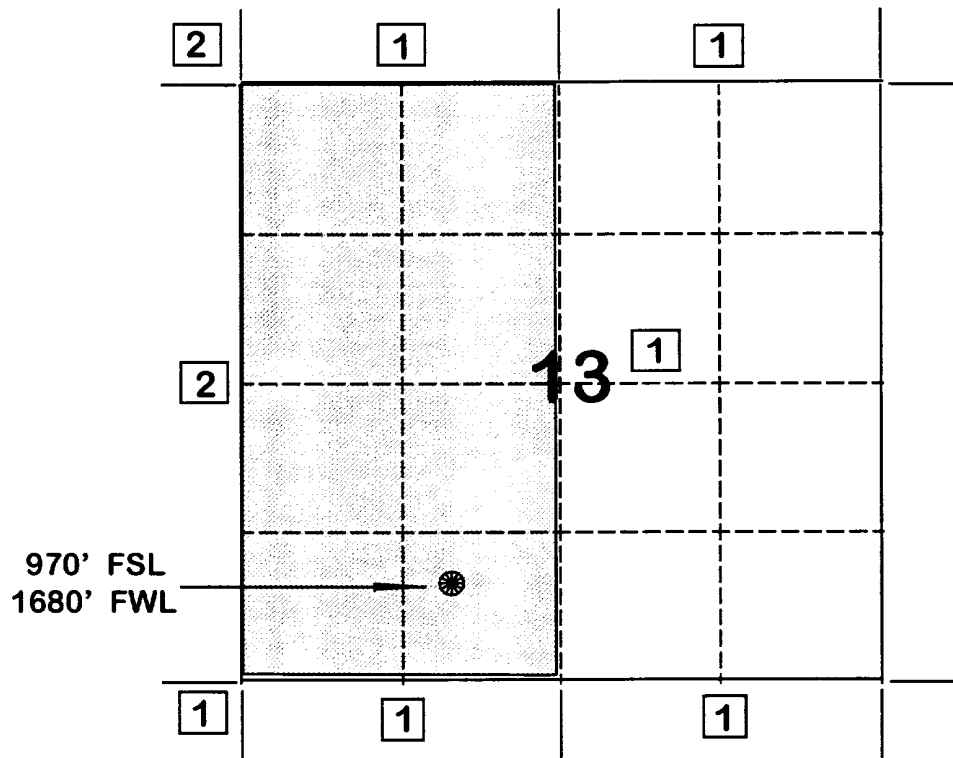


BURLINGTON RESOURCES OIL AND GAS COMPANY

**Hampton #4M
OFFSET OPERATOR \ OWNER PLAT**

Mesaverde/Dakota Formations Commingle Well

Township 30 North, Range 11 West



- 1) Burlington Resources Oil and Gas Company
- 2) Amoco Production Company
Attn: Bruce Zimney
P.O. Box 800
Denver, CO 80201

FDG055M4 S004
START OF DATA
DP NO: 27045_
HAMPTON

WELL PRODUCTION 8/8'S VOLUME

06/17/97 11:10:18

MESA VERDE

DATE: 970615 (YYMMDD FORMAT)

4M 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	0 568	0.00 0.00
-	06/14/97	24.0	0.00	0.00	0 568	0.00 0.00
-	06/13/97	24.0	0.00	0.00	0 568	0.00 0.00
-	06/12/97	24.0	0.00	0.00	0 568	0.00 0.00
-	06/11/97	24.0	0.00	0.00	0 568	0.00 0.00
-	06/10/97	24.0	0.00	0.00	71 568	0.00 0.00
-	06/09/97	24.0	0.00	0.00	71 497	0.00 0.00
-	06/08/97	24.0	0.00	0.00	71 426	0.00 0.00
-	06/07/97	24.0	0.00	0.00	71 355	0.00 0.00
-	06/06/97	24.0	0.00	0.00	71 284	0.00 0.00
-	06/05/97	24.0	0.00	0.00	71 213	0.00 0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF12=MAIN MENU PF6=NRI PF10=BROWSE MENU PF11=INQ/UPDATE MENU
B MY JOB ENTER=BACKWARDS PF24=HELP
LU #6

FDG055M4 S004
START OF DATA
DP NO: 27046_
HAMPTON

WELL PRODUCTION 8/8'S VOLUME

06/17/97 11:10:34

DAKOTA

DATE: 970615 (YYMMDD FORMAT)

4M 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	0.29	4.35	0 928	0.00 0.00
-	06/14/97	24.0	0.29	4.06	0 928	0.00 0.00
-	06/13/97	24.0	0.29	3.77	0 928	0.00 0.00
-	06/12/97	24.0	0.29	3.48	0 928	0.00 0.00
-	06/11/97	24.0	0.29	3.19	0 928	0.00 0.00
-	06/10/97	24.0	0.29	2.90	116 928	0.00 0.00
-	06/09/97	24.0	0.29	2.61	116 812	0.00 0.00
-	06/08/97	24.0	0.29	2.32	116 696	0.00 0.00
-	06/07/97	24.0	0.29	2.03	116 580	0.00 0.00
-	06/06/97	24.0	0.29	1.74	116 464	0.00 0.00
-	06/05/97	24.0	0.29	1.45	116 348	0.00 0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF12=MAIN MENU PF6=NRI PF10=BROWSE MENU PF11=INQ/UPDATE MENU
B MY JOB ENTER=BACKWARDS PF24=HELP
LU #6

Organize Data ScreenGraph Economics Report Plot Utility Quit
 Editing: HAMPTON | 4M | 27045-1 *MESA VERDE* Property No.: 170
 Table(T): TEST/M,P,H,T,Z,C,A,O,D,1,2,3,B,U,S Rec: 1/7/1122
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
11/30/85	0	964.0
12/25/86	84730	452.0
10/20/87	117328	268.0
02/14/90	174820	429.0
05/20/91	194726	571.0
08/20/91	199085	583.0
04/30/97	287800	265.0

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

Organize Data ScreenGraph Economics Report Plot Utility Quit
 Editing: HAMPTON | 4M | 27046-1 *DAKOTA* Property No.: 171
 Table(T): TEST/M,P,H,T,Z,C,A,O,D,1,2,3,B,U,S Rec: 1/9/1122
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
03/28/84	0	1762.0
09/05/84	29247	1330.0
05/15/85	84029	1056.0
04/29/87	240536	802.0
04/20/88	286151	824.0
02/21/91	409073	760.0
06/03/92	471782	765.0
05/19/93	520333	652.0
04/30/97	688146	450.0

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

Hampton #4M
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	0.684	GAS GRAVITY	0.6888
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.2	%N2	0.43
%CO2	0.89	%CO2	1.84
%H2S	0	%H2S	0
DIAMETER (IN)	7.625	DIAMETER (IN)	2.375
DEPTH (FT)	5006	DEPTH (FT)	7060
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	169
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	265	SURFACE PRESSURE (PSIA)	450
BOTTOMHOLE PRESSURE (PSIA)	298.9	BOTTOMHOLE PRESSURE (PSIA)	533.9
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.684	GAS GRAVITY	0.73
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.2	%N2	0.4
%CO2	0.89	%CO2	1.26
%H2S	0	%H2S	0
DIAMETER (IN)	7.625	DIAMETER (IN)	1.9
DEPTH (FT)	5006	DEPTH (FT)	6061
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	170
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	964	SURFACE PRESSURE (PSIA)	1762
BOTTOMHOLE PRESSURE (PSIA)	1104.4	BOTTOMHOLE PRESSURE (PSIA)	2128.4

01 MADDOX 11 04 B STOREY 02 B STOREY 01 STOREY-B	06 STOREY-B 02 CURREN 01-A STOREY-B 05 STOREY-B	02 ONENE 06 NYE 01 ROBBINS 12 05 STOREY-B 06 NYE 01 NYE 07 NYE 01 NYE	01-A SULLIVAN 02 SULLIVAN 7 01 SUNRAY J 0210 SUNRAY J
01 MORRIS A 013 MORRIS 01 DUMP MEER 14 013A MORRIS A 04-3 FEDERAL 01 FEDERAL-PUBCO UNIT	01-E FEDERAL 01 FEDERAL GAS COM L 01-14 FEDERAL V	01 MICHAEL 01 HAMPTON 01 LLOYD 13 01 HAMPTON 014-E NYE 014-A NYE	01-A SCHUMACHER 03 SCHUMACHER 02 SCHUMACHER 18 011 SCHUMACHER 01 SCHUMACHER 03 SCHUMACHER
01 VASALY UNIT 23 018 MORRIS 05 HARTMAN 03 HARTMAN 01-23 HARTMAN 01 HARTMAN #550	01-A MORRIS 01 HARTMAN COM #503 01-P ROSS 01 ROSS FEDERAL	01 LLOYD 01 HARTMAN COM 012 LLOYD 24 01 MURPHY COM 506 03 MURPHY COM 01 CEDAR HILL 02 MURPHY	015 SELLER 013 LUDWICK 01 LUDWICK 19 01 STEWART 19 01 LUDWICK A 02 LUDWICK
01-C MURPHY 01 HARTMAN 01 HARTMAN-A	01 HARTMAN COM #550 01 HARTMAN COM 01 PAYNE 01 PAYNE	015 NYE 01 ALBRIGHT 01-A SELLERS	

Hampton 4M
Sec13N T30N R11W
Mesaverde/Dakota

Hampton #4M
DP# 27046
GWI, NWI, RI, ORRI Owners

WELL ID	NAME	BA ADDRESSEE NAME	INT TYPE
27046	AMOCO PRODUCTION COMPANY		GWI
27046	BARBARA BERNSTEIN		ORRI
27046	BILLIE-DALE NEWBRO WILLIAMS		ORRI
27046	BRADFORD L KIMPLE		ORRI
27046	CARROLL D BRANYON		ORRI
27046	CHARLES H BRADSHAW		ORRI
27046	CLETUS ODEAN WILLIAMS		ORRI
27046	CONOCO INC		GWI
27046	DAVID G NEWBRO		ORRI
27046	DORIS WALDMAN		ORRI
27046	ELIZABETH A JOHNSON		ORRI
27046	ELLIS W DARBY		ORRI
27046	EST LOUIS T KIMPLE DECD	ROSALEE F KIMPLE IND ADM	ORRI
27046	EUGENE DEBOGORY ESTATE	FRANCES H ROSI & PETER E	ORRI
27046	FIRST PRESBYTERIAN CHURCH		ORRI
27046	FRANKLIN NEWBRO		ORRI
27046	GAYNOR NEWBRO WILLSON		ORRI
27046	GLADYS K VERRILL TRUST	TX COMMERCE BK DALLAS TRUSTEE	ORRI
27046	H W SMITH ESTATE	GARY W HARVEY INDEP EXEC	ORRI
27046	ILENE GROSS		ORRI
27046	J BURTON VETETO		ORRI
27046	JEAN B JR & ALINE G MILLER TR		ORRI
27046	JIM L SHARP		ORRI
27046	JULIE ANN ANTWEIL TRUST		ORRI
27046	KAREN KIMPLE NOBREGA		ORRI
27046	KEYS M ARNOLD		ORRI
27046	LOUIE KIMPLE TR #2	TX COMMERCE BK DAL TR #2 TRSTE	ORRI
27046	LOUIS DREYFUS NATURAL GAS CORP		ORRI
27046	LOUIS T KIMPLE JR EST	MARJORIE SUE MOORE ADMIN	ORRI
27046	MARATHON OIL COMPANY		ORRI
27046	MELVIN A ASTRAHAN		ORRI
27046	MINERALS MANAGEMENT SERVICE		RI
27046	PALMER L LONG		ORRI
27046	PAUL AND LAURA ALBRIGHT		ORRI
27046	PERRY M BERKE		ORRI
27046	PRISCILLA ANN MILBURN		ORRI
27046	ROBERT M WILLIAMS		ORRI
27046	ROBERT W ULMER		ORRI
27046	SAN JUAN LODGE #25 AF & AM		RI
27046	SCOTT A ARNOLD III		ORRI
27046	SCOTT C KIMPLE		ORRI
27046	SHEFFIELD GORDON REVOCABLE TR	MARCELINE D GORDON TRUSTEE OF	ORRI
27046	SINGER BROS		ORRI
27046	STEVEN H GORDON		ORRI
27046	SUZANNE MARTHA NEWBRO		ORRI
27046	SYRIL ANN JAMES		ORRI
27046	THERESA B ATLESS LIVING TRUST		ORRI
27046	UNITED PIPE SUPPLY CO		ORRI
27046	W B ULMER JR		ORRI
27046	WILLIAM CARLISLE KIMPLE		ORRI
27046	WILLIAM HALL NEWBRO JR		ORRI

Hampton #4M

DP# 27045

WELL ID	BA NAME	BA ADDRESSEE NAME	DO INT TYPE CD
27045	AMOCO PRODUCTION COMPANY		ORRI
27045	BARBARA BERNSTEIN		ORRI
27045	BILLIE-DALE NEWBRO WILLIAMS		ORRI
27045	BRADFORD L KIMPLE		ORRI
27045	BURLINGTON RESO O&G (SJB/T/PBT)		NWI
27045	CARROLL D BRANYON		ORRI
27045	CHARLES H BRADSHAW		ORRI
27045	CLETUS ODEAN WILLIAMS		ORRI
27045	DAVID G NEWBRO		ORRI
27045	DORIS WALDMAN		ORRI
27045	ELIZABETH A JOHNSON		ORRI
27045	ELLIS W DARBY		ORRI
27045	EST LOUIS T KIMPLE DECD	ROSALEE F KIMPLE IND ADM	ORRI
27045	EUGENE DEBOGORY ESTATE	FRANCES H ROSI & PETER E	ORRI
27045	FIRST PRESBYTERIAN CHURCH		ORRI
27045	FRANKLIN NEWBRO		ORRI
27045	GAYNOR NEWBRO WILLSON		ORRI
27045	GLADYS K VERRILL TRUST	TX COMMERCE BK DALLAS TRUSTEE	ORRI
27045	ILENE GROSS		ORRI
27045	JEAN B JR & ALINE G MILLER TR		ORRI
27045	KAREN KIMPLE NOBREGA		ORRI
27045	KEYS M ARNOLD		ORRI
27045	LOUIE KIMPLE TR #2	TX COMMERCE BK DAL TR #2 TRSTE	ORRI
27045	LOUIS DREYFUS NATURAL GAS CORP		ORRI
27045	LOUIS T KIMPLE JR EST	MARJORIE SUE MOORE ADMIN	ORRI
27045	MARATHON OIL COMPANY		ORRI
27045	MELVIN A ASTRAHAN		ORRI
27045	MINERALS MANAGEMENT SERVICE		RI
27045	PALMER L LONG		ORRI
27045	PAUL AND LAURA ALBRIGHT		ORRI
27045	PERRY M BERKE		ORRI
27045	PRISCILLA ANN MILBURN		ORRI
27045	ROBERT W ULMER		ORRI
27045	SAN JUAN LODGE #25 AF & AM		RI
27045	SCOTT A ARNOLD III		ORRI
27045	SCOTT C KIMPLE		ORRI
27045	SHEFFIELD GORDON REVOCABLE TR	MARCELINE D GORDON TRUSTEE OF	ORRI
27045	STEVEN H GORDON		ORRI
27045	SUZANNE MARTHA NEWBRO		ORRI
27045	SYRIL ANN JAMES		ORRI
27045	THERESA B ATCLASS LIVING TRUST		ORRI
27045	W B ULMER JR		ORRI
27045	WILLIAM CARLISLE KIMPLE		ORRI
27045	WILLIAM HALL NEWBRO JR		ORRI