

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

CAIN**11E****O, Sec. 15, T28N, 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 18487 API NO. 30-045-23972 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)	3032' - 3140'		6424'-6604'
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. 470 Psia @ 3086' (Original) b. 1105 Psia	a. b.	a. 432 Psia @ 6514' b. 989 Psia
6. Oil Gravity (°API) or Gas BTU Content	1148		1260
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	Date: Rates:	Date: Rates:	Date: Rates:

Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data

All distances must be from the outer boundaries of the Section

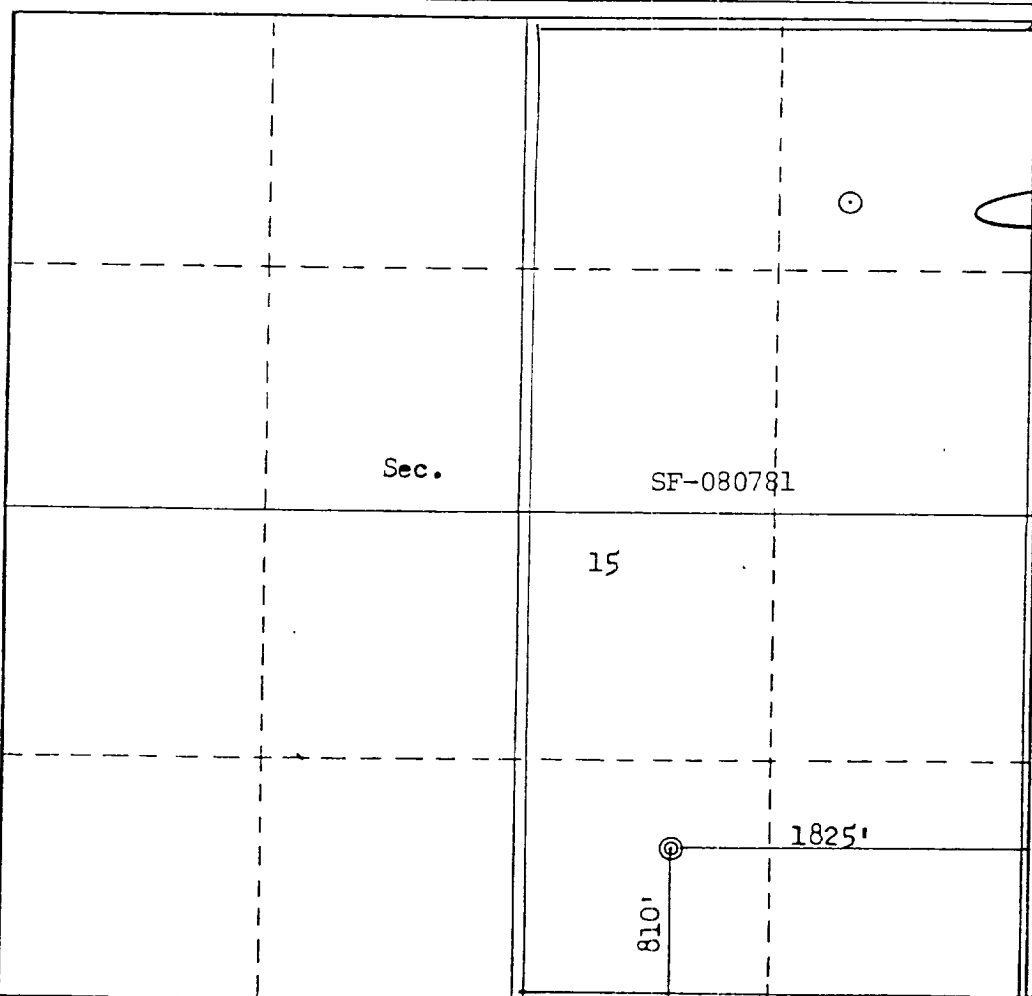
Operator SOUTHLAND ROYALTY COMPANY			Lease Cain		Well No. 11-E
Unit Letter 0	Section 15	Township 28N	Range 10W	County San Juan	
Actual Footage Location of Well: 810 feet from the South line and 1825 feet from the East line					
Ground Level Elev. 5935	Producing Formation Dakota - Gallup		Pool Basin - Undesignated		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
L. O. Van Ryan

Position
District Production Manager

Company
Southland Royalty Company

Date
November 6, 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 28, 1979

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

Certificate No. **3950**

WELL LOCATION AND ACREAGE DEDICATION PLAT

Effective 1-1-00

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

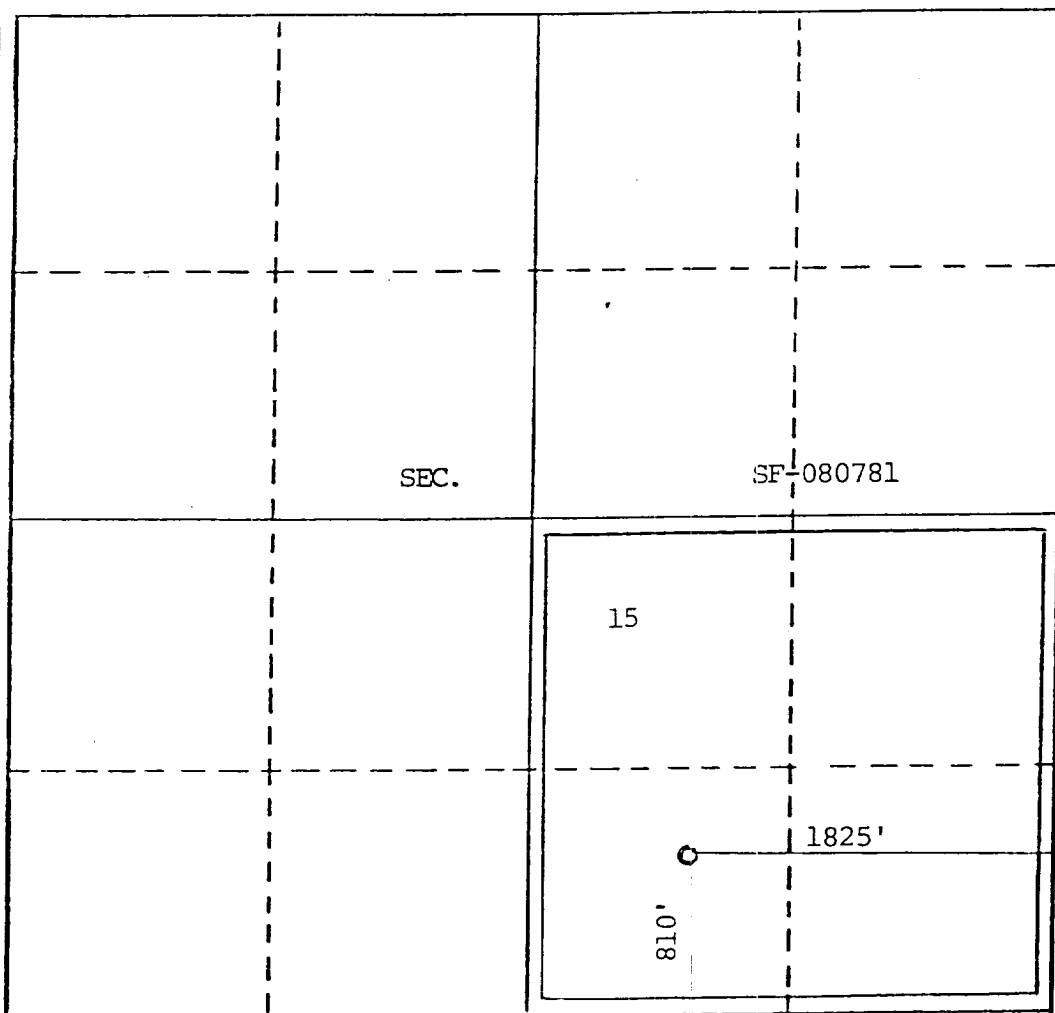
Operator Southland Royalty Company			Lease Cain		Well No. #11E
Unit Letter O	Section 15	Township 28N	Range 10W	County San Juan	
Actual Footage Location of Well: 810' feet from the South line and 1825 feet from the East line					
Ground Level Elev: 5935'	Producing Formation Chacra		Pool Undesignated		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.

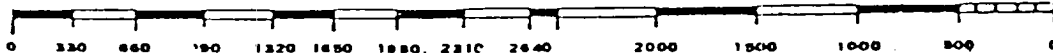
Name
Curtis C. Parsons
Position
District Engineer
Company
Southland Royalty Company
Date
June 3, 1980

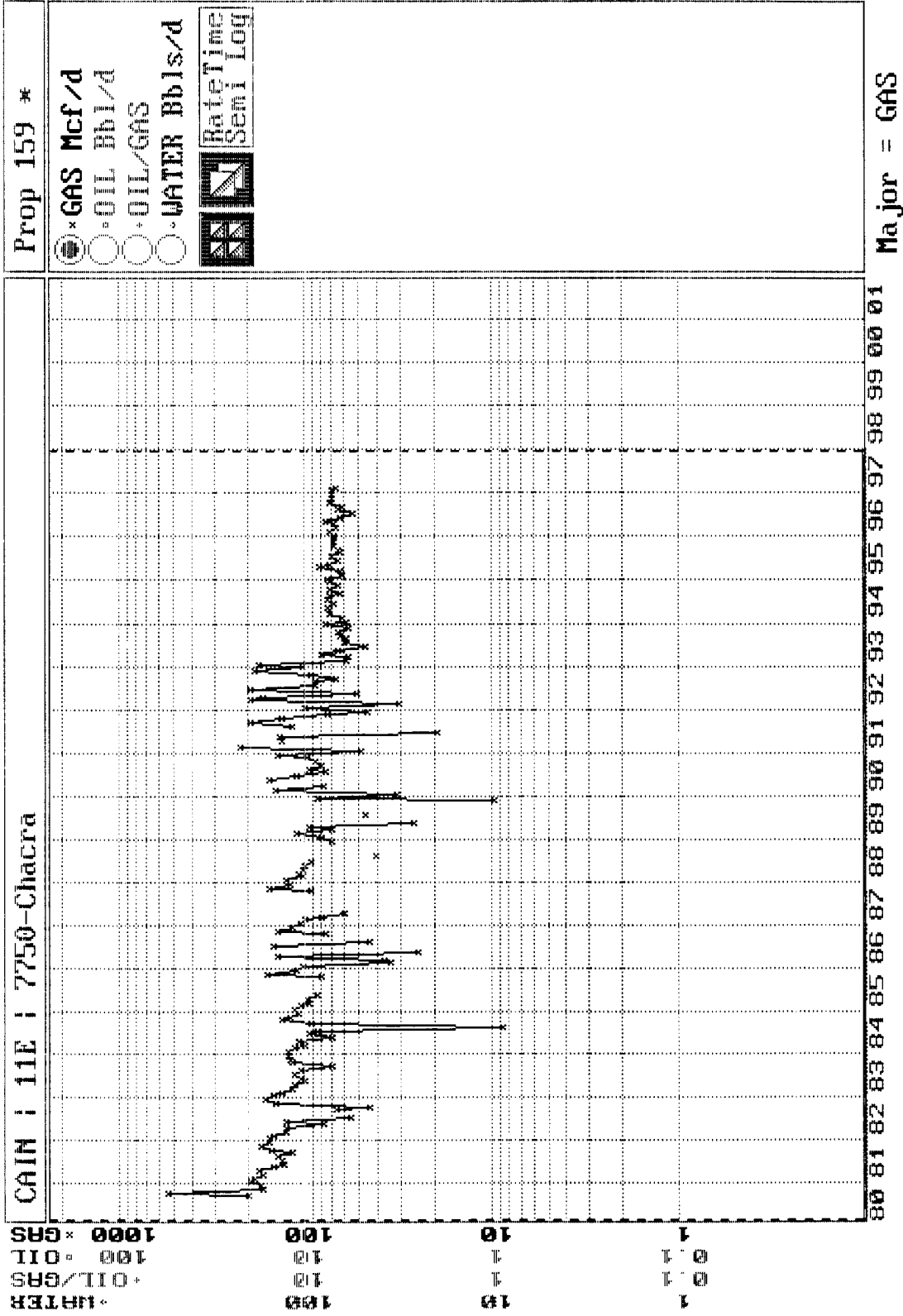
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
October 16, 1979
Registered Professional Engineer
and/or Land Surveyor

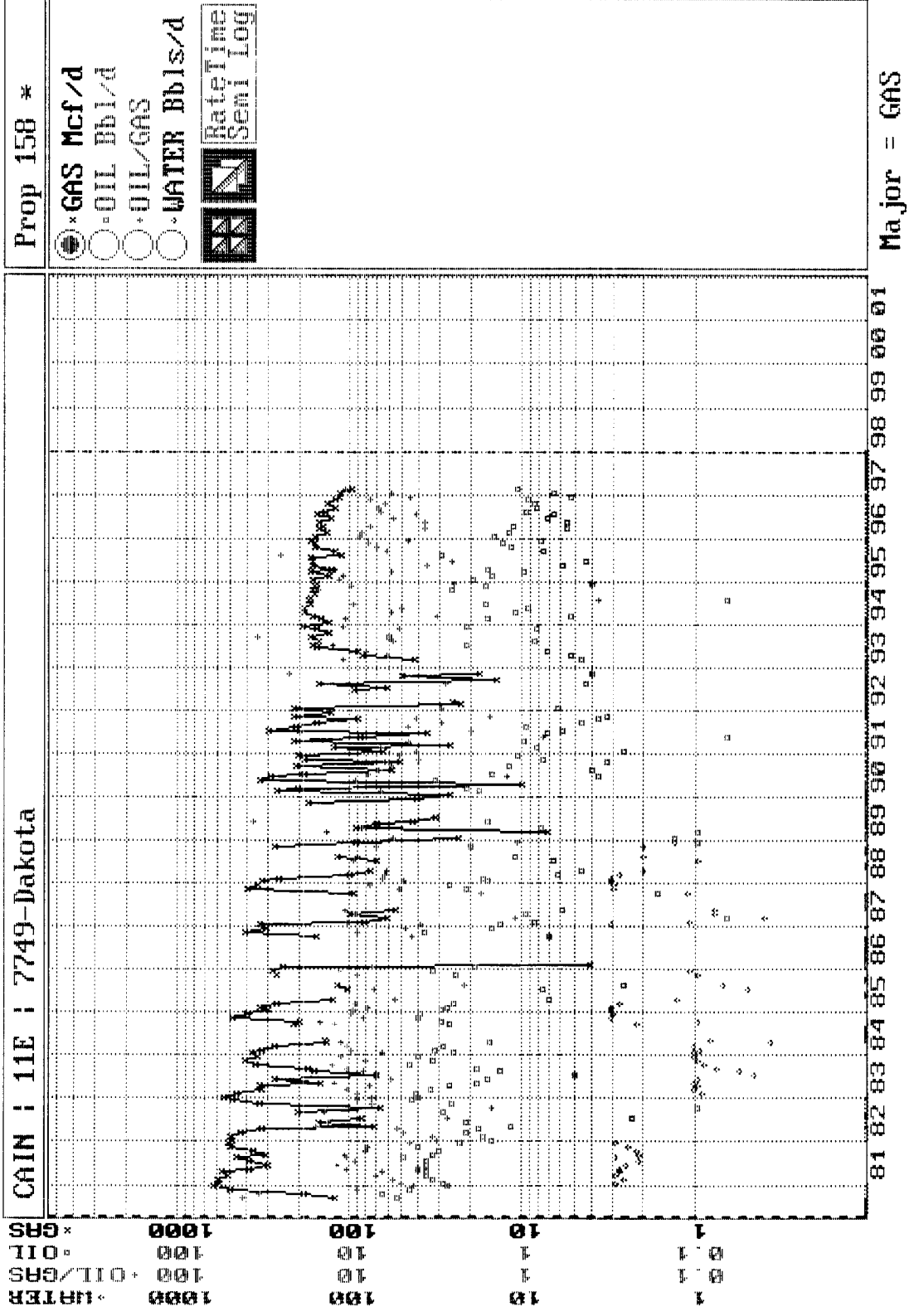
Fred B. Kerr, Jr.

Certificate No.
3950





Major = GAS

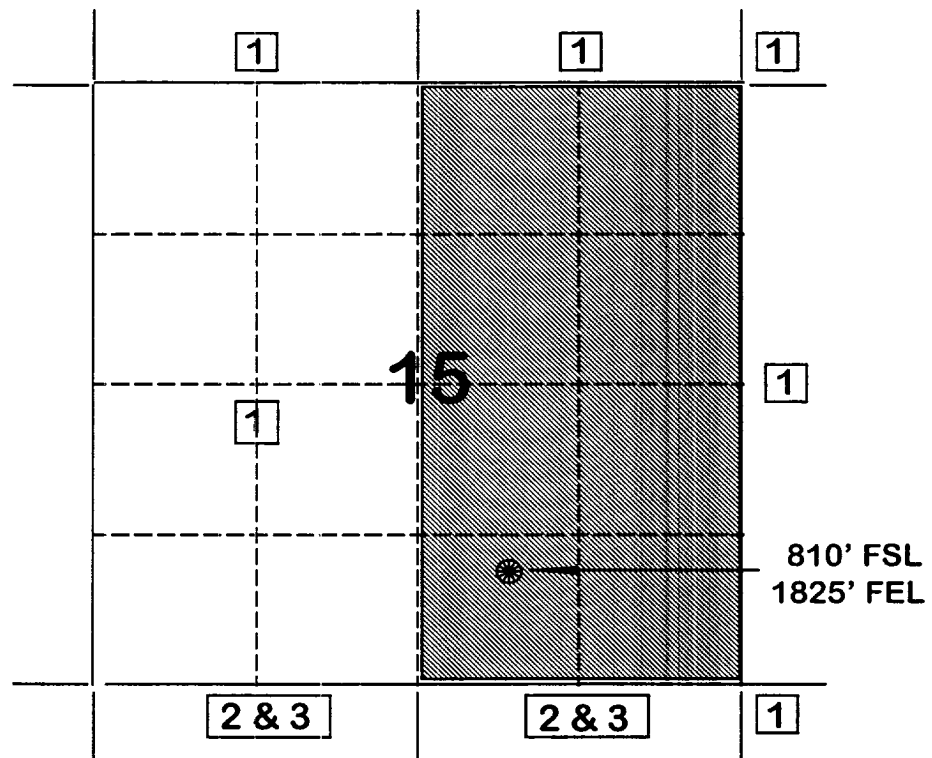


BURLINGTON RESOURCES OIL AND GAS COMPANY

**Cain #11E
OFFSET OPERATOR \ OWNER PLAT**

Chacra (SE/4)/Dakota (E/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
- 3) Universal Resources
1331 17th Street, Suite 300
Denver, CO 80202

Organize Data ScreenGraph Economics Report Plot Utility Quit
 Editing: CAIN | 11E | 7749-Dakota Property No.: 158
 Table(T): TEST/M,P,H,T,Z,C,A,O,D,1,2,3,B,U,S Rec: 1/9/1018
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
05/07/80	0	836.0
11/08/80	24666	749.0
09/24/81	167806	574.0
05/25/82	265553	429.0
09/08/83	382438	577.0
12/05/85	549725	527.0
08/17/88	658285	397.0
10/02/90	734544	434.0
05/05/93	824889	370.0

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: CAIN | 11E | 7750-Chacra Property No.: 159
 Table(T): TEST/M,P,H,T,Z,C,A,O,D,1,2,3,B,U,S Rec: 1/5/1018
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
05/07/80	0	1013.0
09/24/81	74532	673.0
05/24/82	107954	660.0
09/08/83	152986	647.0
05/05/93	433872	435.0

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 11:43:20

START OF DATA

DP NO: 7749_ *DAKOTA*

DATE: 970615 (YYMMDD FORMAT)

CAIN

11E

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	1.20 18.00	135 2236	0.00 0.00
-	06/14/97	24.0	1.20 16.80	135 2101	0.00 0.00
-	06/13/97	24.0	1.20 15.60	142 1966	0.00 0.00
-	06/12/97	24.0	1.20 14.40	142 1824	0.00 0.00
-	06/11/97	24.0	1.20 13.20	142 1682	0.00 0.00
-	06/10/97	24.0	1.20 12.00	154 1540	0.00 0.00
-	06/09/97	24.0	1.20 10.80	154 1386	0.00 0.00
-	06/08/97	24.0	1.20 9.60	154 1232	0.00 0.00
-	06/07/97	24.0	1.20 8.40	154 1078	0.00 0.00
-	06/06/97	24.0	1.20 7.20	154 924	0.00 0.00
-	06/05/97	24.0	1.20 6.00	154 770	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 11:43:30

START OF DATA

DP NO: 7750_ *CHACRA*

DATE: 970615 (YYMMDD FORMAT)

CAIN

11E

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	71 1123	0.00 0.00
-	06/14/97	24.0	0.00 0.00	71 1052	0.00 0.00
-	06/13/97	24.0	0.00 0.00	71 981	0.00 0.00
-	06/12/97	24.0	0.00 0.00	71 910	0.00 0.00
-	06/11/97	24.0	0.00 0.00	71 839	0.00 0.00
-	06/10/97	24.0	0.00 0.00	84 768	0.00 0.00
-	06/09/97	24.0	0.00 0.00	84 684	0.00 0.00
-	06/08/97	24.0	0.00 0.00	84 600	0.00 0.00
-	06/07/97	24.0	0.00 0.00	84 516	0.00 0.00
-	06/06/97	24.0	0.00 0.00	72 432	0.00 0.00
-	06/05/97	24.0	0.00 0.00	72 360	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

Organize Data ScreenGraph Economics Report Plot Utility Quit
 Editing: CAIN | 11E | 7749-1 *DAKOTA* Property No.: 158
 Table(T): TEST/M,P,H,T,Z,C,A,O,D,1,2,3,B,U,S Rec: 1/10/1032
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
05/07/80	0	836.0
11/08/80	24666	749.0
09/24/81	167806	574.0
05/25/82	265553	429.0
09/08/83	382438	577.0
12/05/85	549725	527.0
08/17/88	658285	397.0
10/02/90	734544	434.0
05/05/93	824889	370.0

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 & I

Organize Data ScreenGraph Economics Report Plot Utility Quit
 Editing: CAIN | 11E | 7750-1 *CHACRA* Property No.: 159
 Table(T): TEST/M,P,H,T,Z,C,A,O,D,1,2,3,B,U,S Rec: 1/6/1032
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
05/07/80	0	1013.0
09/24/81	74532	673.0
05/24/82	107954	660.0
09/08/83	152986	647.0
05/05/93	433872	435.0

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 & I

Cain #11E
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Chacra		Dakota	
<u>CH-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	<u>0.674</u>	GAS GRAVITY	<u>0.674</u>
COND. OR MISC. (C/M)	<u>C</u>	COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.83</u>	%N2	<u>0.83</u>
%CO2	<u>0.24</u>	%CO2	<u>0.24</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>5.5</u>	DIAMETER (IN)	<u>1.9</u>
DEPTH (FT)	<u>3086</u>	DEPTH (FT)	<u>6514</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>102</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>435</u>	SURFACE PRESSURE (PSIA)	<u>370</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>470.3</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>432.1</u>
<u>CH-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	<u>0.674</u>	GAS GRAVITY	<u>0.674</u>
COND. OR MISC. (C/M)	<u>C</u>	COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.83</u>	%N2	<u>0.83</u>
%CO2	<u>0.24</u>	%CO2	<u>0.24</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>5.5</u>	DIAMETER (IN)	<u>1.9</u>
DEPTH (FT)	<u>3086</u>	DEPTH (FT)	<u>6514</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>102</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1013</u>	SURFACE PRESSURE (PSIA)	<u>836</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>1105.2</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>988.7</u>

