

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: Cain #11E
810'FSL, 1825'FEL, Section 15, T-28-N, R-10-W
30-045-23972

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Chacra 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 Chacra 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 Chacra 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 **CAIN** Address **O, Sec. 15, T28N, R10W** County **San Juan**
Lease **11E** Well No. **11E** Unit Ltr. - Sec - Twp - Rge **O, Sec. 15, T28N, R10W**

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'	a.	a. 432 Psia @ 6514'
	(Original) b. 1105 Psia	b.	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 <small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data</small>	Date: Rates:	Date: Rates:	Date: Rates:
	Date: 8/15/97 Rates: 71 MCFD	Date: Rates:	Date: 8/15/97 Rates: 135 MCFD
* If Producing, give data and oil/gas/water water of recent test (within 60 days)			
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: Gas: supplied upon completion	Oil: Gas:	Oil: Gas: supplies 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-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 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

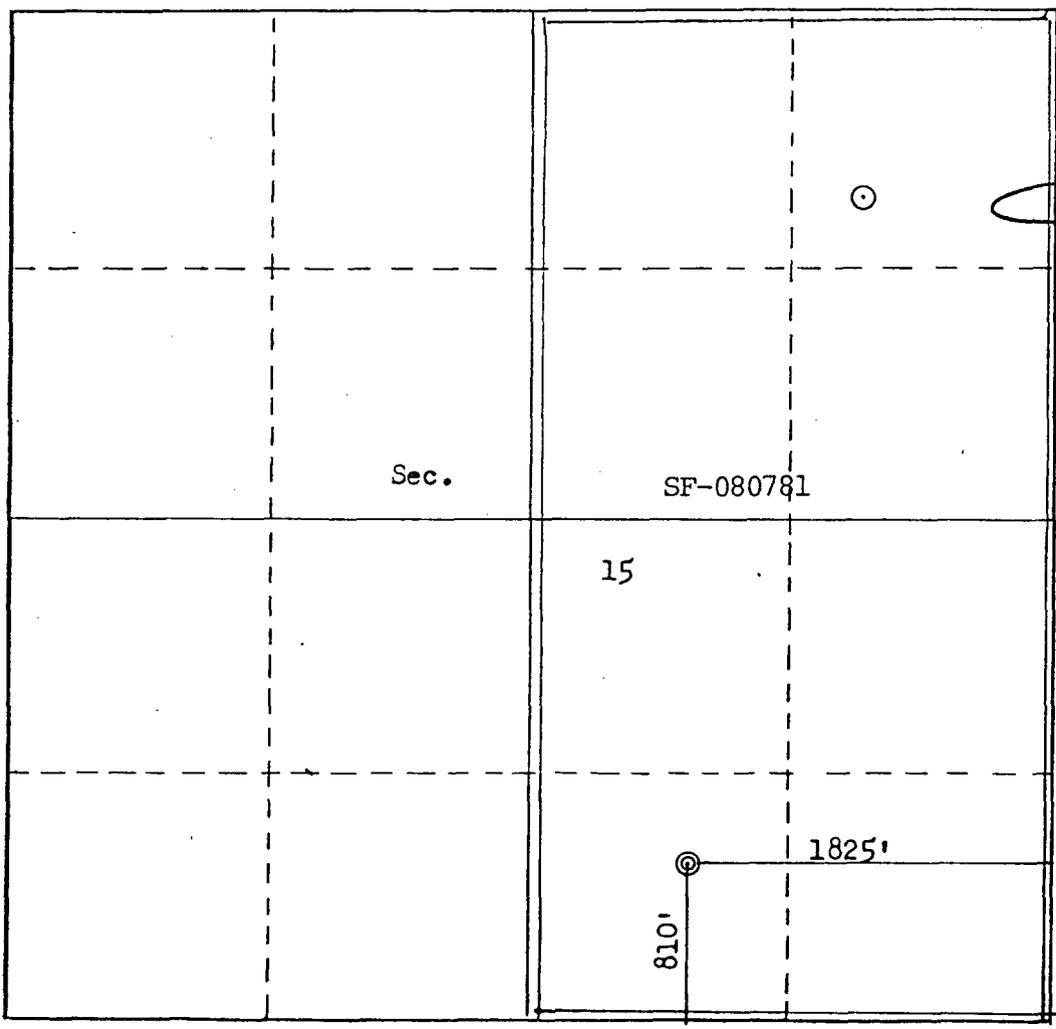
Ground Level Elev. 5935	Producing Formation Dakota - Gallup	Pool Basin - Undesignated	Dedicated Acreage: 320 Acres
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1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease 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

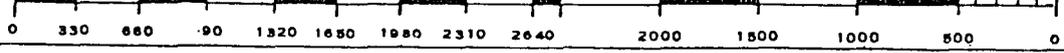
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

L. O. Van Ryan

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 No. Fred B. Kerr, Jr.
Certificate No. 3950



WELL LOCATION AND ACREAGE DEDICATION PLAT

Effective 1-1-65

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

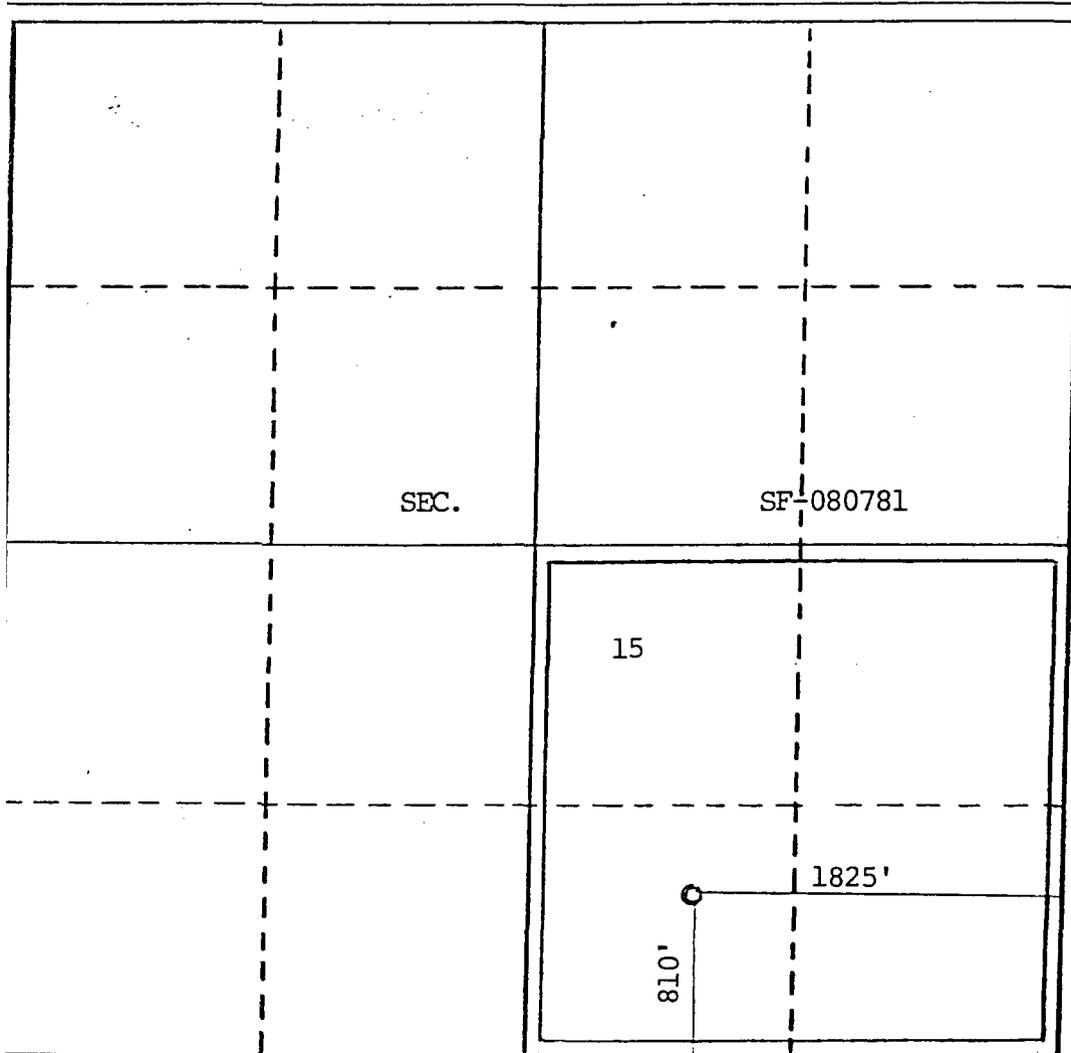
Operator Southland Royalty Company		Lease Cain		Well No. #11E
Unit Letter 0	Section 15	Township 28N	Range 10W	County San Juan
Actual Footage Location of Well: 810' feet from the South line and 1825 feet from the East line				
Ground Level Elev. 5935'	Producing Formation Chacra	Pool Undesignated	Dedicated 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.

Curtis C. Parsons

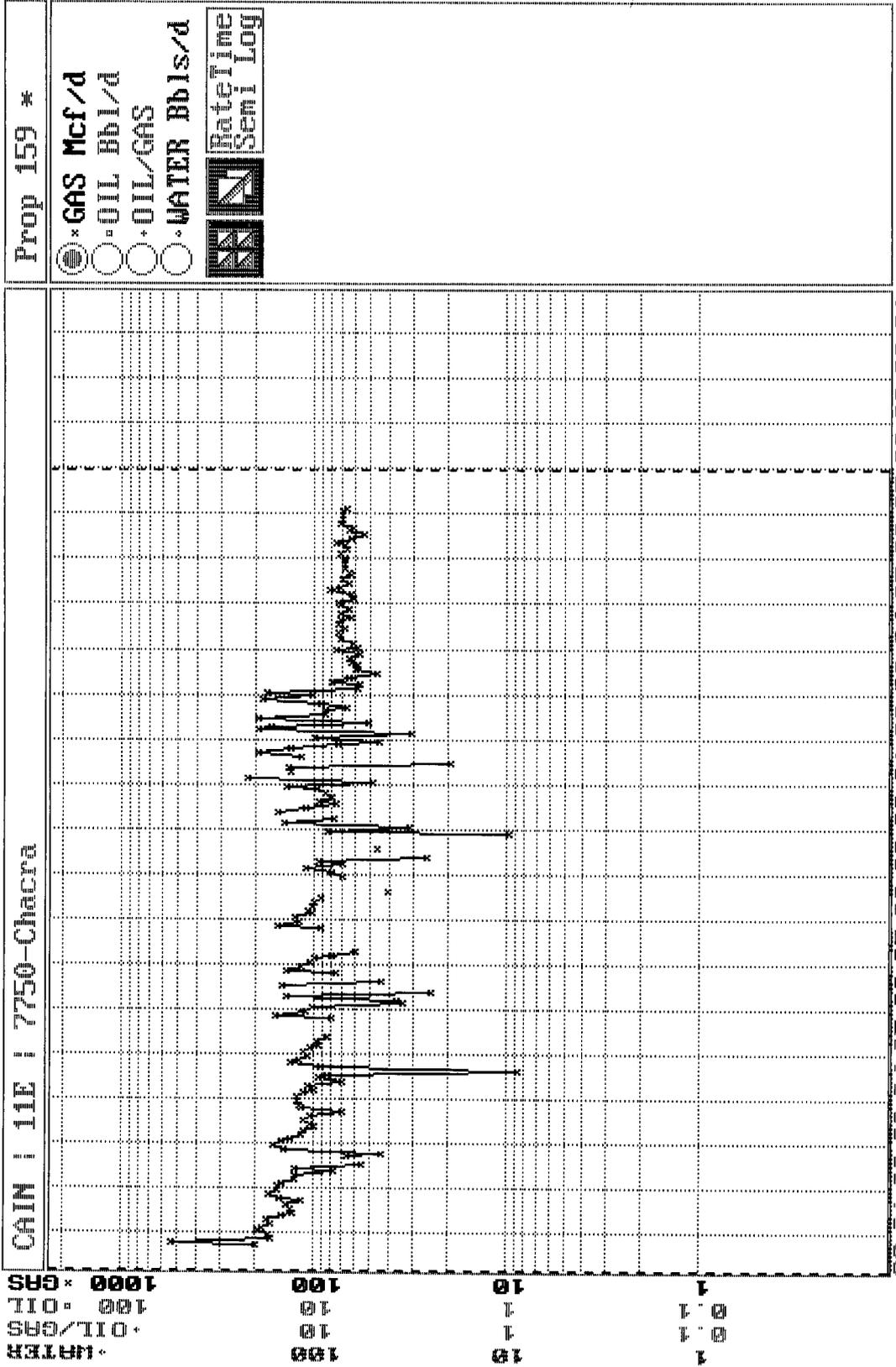
Name
Curtis C. Parsons
Position
District Engineer
Company
Southland Royalty Company
Date
June 3, 1980

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.

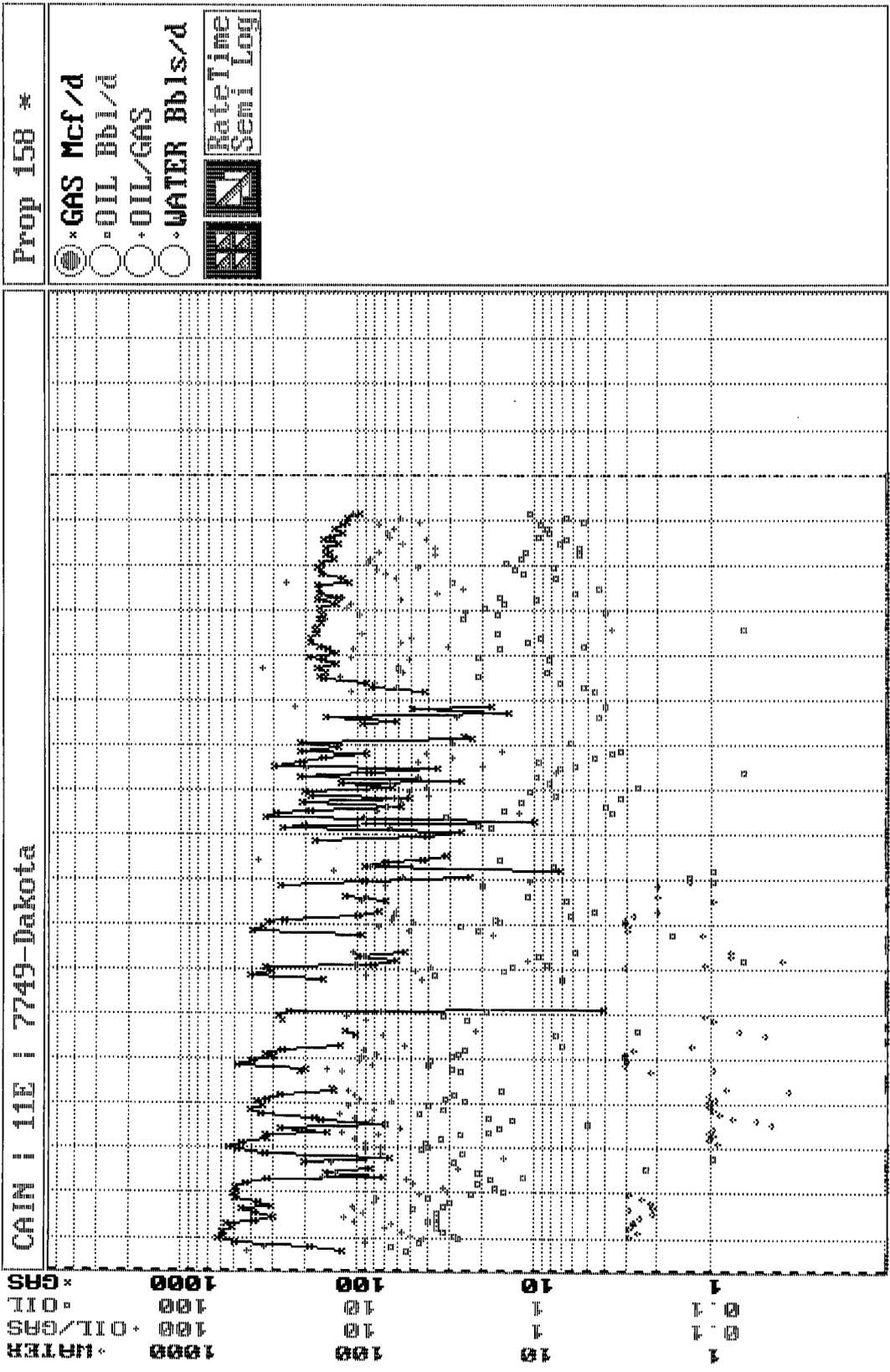
Date Surveyed
October 16, 1979
Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr, Jr.

Certificate No.
3950





Major = GAS



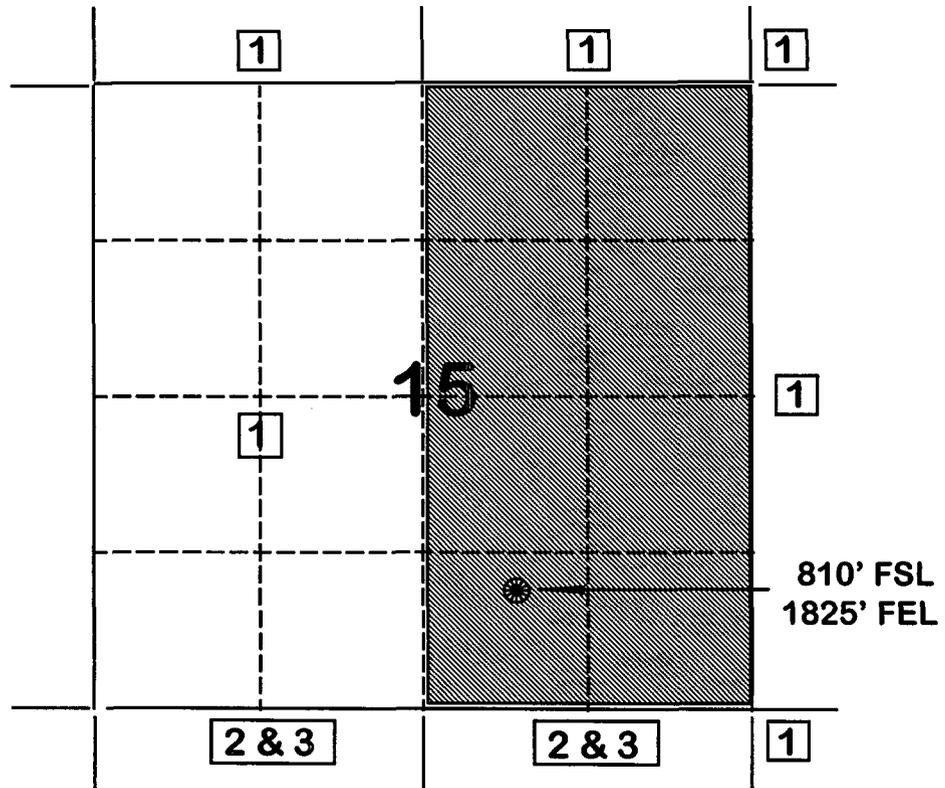
Major = GAS

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

<u>--DATE--</u>	<u>---CUM GAS--</u>	<u>M SIWHP</u>
	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

<u>--DATE--</u>	<u>---CUM GAS--</u>	<u>M SIWHP</u>
	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

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FDG055M4 S004
START OF DATA
DP NO: 7749_

DAKOTA

WELL PRODUCTION 8/8'S VOLUME

06/17/97 11:43:20

DATE: 970615 (YYMMDD FORMAT)
SCROLL FORWARD BY DATE: _

11E

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

PF12=MAIN MENU
B MY JOB

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

PF11=INQ/UPDATE MENU
PF24=HELP

FDG055M4 S004
START OF DATA
DP NO: 7750_

CHACRA

WELL PRODUCTION 8/8'S VOLUME

06/17/97 11:43:30

DATE: 970615 (YYMMDD FORMAT)
SCROLL FORWARD BY DATE: _

11E

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

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B MY JOB

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ENTER=BACKWARDS LU #6

PF11=INQ/UPDATE MENU
PF24=HELP

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

<u>--DATE--</u>	<u>---CUM GAS--</u>	<u>M SIWHP</u>
	Mcf	Psi
05/07/80	0	836.0
11/08/80	24666	749.0
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05/25/82	265553	429.0
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05/05/93	824889	370.0

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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

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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>																																																
<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;">0.674</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;">0.83</td></tr> <tr><td>%CO2</td><td style="text-align: right; border-bottom: 1px solid black;">0.24</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;">5.5</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right; border-bottom: 1px solid black;">3086</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;">102</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;">435</td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; border: 1px solid black;">470.3</td></tr> </table>	GAS GRAVITY	0.674	COND. OR MISC. (C/M)	C	%N2	0.83	%CO2	0.24	%H2S	0	DIAMETER (IN)	5.5	DEPTH (FT)	3086	SURFACE TEMPERATURE (DEG F)	60	BOTTOMHOLE TEMPERATURE (DEG F)	102	FLOWRATE (MCFPD)	0	SURFACE PRESSURE (PSIA)	435	BOTTOMHOLE PRESSURE (PSIA)	470.3	<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;">0.674</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;">0.83</td></tr> <tr><td>%CO2</td><td style="text-align: right; border-bottom: 1px solid black;">0.24</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;">1.9</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right; border-bottom: 1px solid black;">6514</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;">150</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;">370</td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; border: 1px solid black;">432.1</td></tr> </table>	GAS GRAVITY	0.674	COND. OR MISC. (C/M)	C	%N2	0.83	%CO2	0.24	%H2S	0	DIAMETER (IN)	1.9	DEPTH (FT)	6514	SURFACE TEMPERATURE (DEG F)	60	BOTTOMHOLE TEMPERATURE (DEG F)	150	FLOWRATE (MCFPD)	0	SURFACE PRESSURE (PSIA)	370	BOTTOMHOLE PRESSURE (PSIA)	432.1
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