			•		
DATEIN	6/25/97	SUSPENSE 7/15/97			TYPE DHC
	· /	1 1	ABOVE THIS LINE FOR DIVISION USE	ONLY	
		NEW MEXIC	O OIL CONSERVA - Engineering Bureau -	TION DIVISION	
		ADMINISTRATI	VE APPLICATI	ON COVERSHE	ET
	THIS COVERSHE	ET IS MANDATORY FOR ALL ADN	INISTRATIVE APPLICATIONS FO	R EXCEPTIONS TO DIVISION RULE	SAND REGULATIONS
Applic	[PC-Po	[DD-Directiona nhole Commingling] ool Commingling] [Ol [WFX-Waterflood Expa [SWD-Salt Water	I Drilling] [SD-Simult [CTB-Lease Comming] LS - Off-Lease Storage] ansion] [PMX-Pressur Disposal] [IPI-Injectio	ing] [PLC-Pool/Lease [OLM-Off-Lease Mea e Maintenance Expansi	Commingling} surement} on]
[1]	TYPE OF AI [A]		eck Those Which App Unit - Directional Dr DD D	illing	<u>GEIVE</u> UN 25 1997
	Check [B]	Commingling - Stor DHC CTE	rage - Measurement		SERVATION DUISSON
	[C]	Injection - Disposal		Enhanced Oil Recover	ery PPR
[2]	NOTIFICAT [A]	_ `	FO: - Check Those W ty or Overriding Roya	/hich Apply, or 🖵 Do alty Interest Owners	es Not Apply
	[B]	Offset Operators	s, Leaseholders or Su	face Owner	
	[C]	Application is O	ne Which Requires P	ublished Legal Notice	2
	[D]	V.S. Bureau of Land	/or Concurrent Appro Management - Commissioner of F	oval by BLM or SLO Public Lands, State Land Office	
	[E]	Given Service For all of the abo	ove, Proof of Notifica	tion or Publication is	Attached, and/or,
	[F]	UWaivers are Atta	ached		

[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	Manued	Regulatory/Compliance Administrator
Print or Type Name	Signature	Title

6/24/9-7 Date



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, hadhuid

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**

Form C-107-A New 3-12-96

APPROVAL PROCESS : _X_ Administrative ____Hearing

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

_X__ 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

OGRID NO. __14538_____ Property Code ____18487____ API NO.30-045-23972_Federal ___X__ , State _____(and/or) Fee ___

Spacing Unit Lease Types: (check 1 or more)

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	(Current) a. 470 Psia @ 3086'	a.	a. 432 Psia @ 6514'
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(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 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: 6/15/97 Rates: 71 MCFD	Date: Rates:	Date: 6/15/97 Rates: 135 MCFD
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? If not, have all working, overriding, and royalty interests been notified by certified mail? Have all offset operators been given written notice of the proposed downhole commingling? _X_Yes ___No

Will cross-flow occur? ____ Yes _X_ 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) 11. Will cross-flow occur?

12. Are all produced fluids from all commingled zones compatible with each other? _X_Yes __ No

13. Will the value of production be decreased by commingling? ____Yes _X__ 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. X_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 Terrs L. Midle TITLE	Operations EnginnerDA	TE06-23-97
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TYPE OR PRINT NAME _Kevin L. Midkiff _____ TELEPHONE NO. (505) 326-9700

31		equ	uire	d	data	otner a.	ſ
	_X	(Yes	3 _		No	

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 Ç

•	6 IIA	istences must be fri	un the cuter lounds	ties of the Section	۱ <u> </u>	
Operator			Lease			Well No.
SOUTHLAND ROYA	LTY COMPANY		Cain			11-E
Unit Letter Secti	· · · · · · · · · · · · · · · · · · ·	ship	Range	County		
1	5	28N	10W		u Ju an	
Actual Footage Location c						
810	Sec. 41		1825		E- at	
	from the South	l line and	1825	feet from the	East	line
Ground Level Elev.	Producing Formation		Pool	n an		Dedicated Acreage:
5935	Dakota - Ga	llup	Basin - U	ndesignated		320 Acres
interest and roy 3. If more than one	ne lease is dedic valty). e lease of differen	ated to the wel	l, outline each a dedicated to the	nd identify the	ownership tl	hereof (both as to working all owners been consoli-
Yes If answer is "n this form if nece No allowable wi	o,'' list the owner essary.) ll be assigned to t	is "yes," type o s and tract desc he well until all	f consolidation riptions which h interests have	ave actually be been consolida	ted (by com	ated. (Use reverse side of munitization, unitization, approved by the Commis-
	 	S	F-080781		Name L. O. Va Position District Company Southlar Date	CERTIFICATION ertify that the information con- tein is true ond complete to the knowledge and belief. Chan France an Ryan t Production Manager and Royalty Company c 6, 1979
		15	P 1825		shown on notes of a under my is true a knowledge Date Surveye October	28 197994 Witzer Rong Engines
330 660 ·90 13	20 1650 1980 2310	2640 2000	1500 1000	800 0	Fred R Certificate N 3950	Retr dr A.

WELL CATION AND ACREAGE DEDICATION TAT

' Effective 14-65

		~ .						
alty Company			Leese Cain				Well No. #11E	
Section	Township		Range		County			•
15	28N			LOW	San J	uan	·	
ntion of Well:								
feet from the	outh	line and	1825	feet	from the	East	line	
Producing For	Chacra		Pool	Undesign	ated		Dedicated Acreage: 320	Acres
	Section 1.5 rtion of Well: feet from the S	alty Company Section Township 15 28N riton of Well: feet from the South Producing Formation	Section Township 15 28N rtion of Well: 100 of Well: feet from the South Producing Formation	alty Company Cain Section Township Range 15 28N Range fion of Well: feet from the South line and 1825 Producing Formation Pool	alty Company Cain Section Township Range 15 28N 10W tion of Well: feet from the South line and 1825 feet	Leone Cain Section Township 15 28N 10W San J rition of Well: 10W feet from the South Producing Formation Pool	Lecone Cain Section Township 15 28N 10W San Juan rition of Well: Ine and feet from the South	Lectre Well No. alty Company Cain Section Township 15 28N 10W San Juan stion of Well: Inc and feet from the South line and 1825 feet from the East

1. Outline the acreage dedicated to the subject well by colored pencil or bachure marks on the plat below.

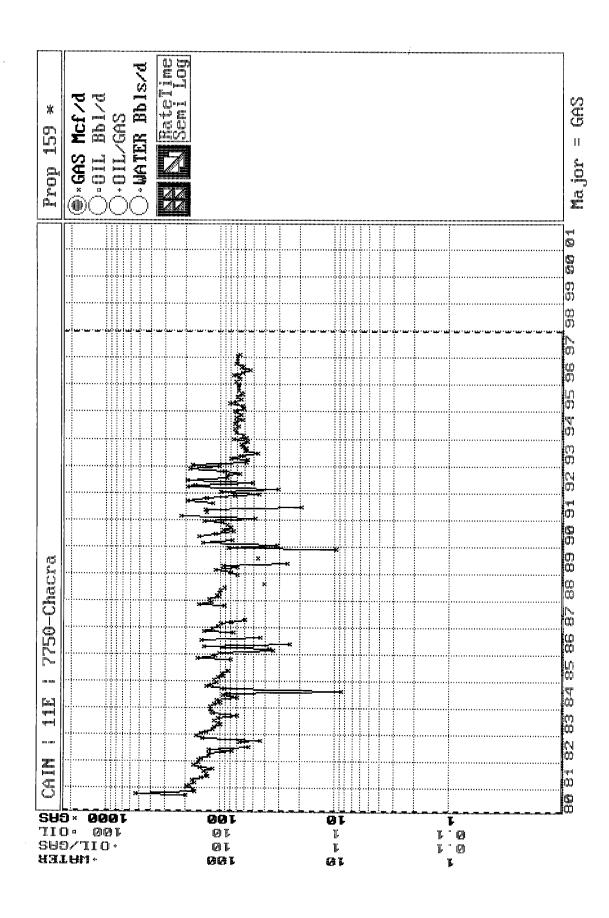
- 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

Yes No If answer is "yes," type of consolidation

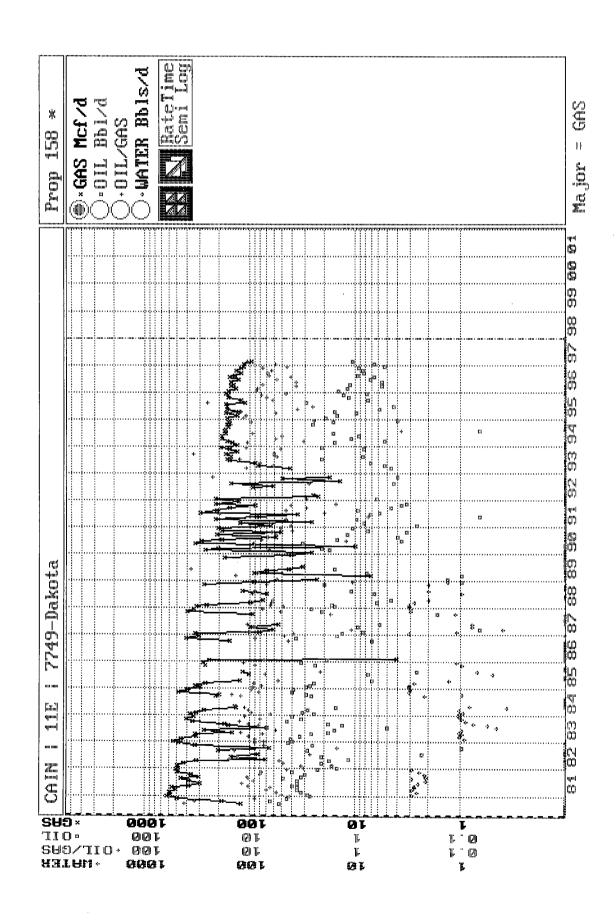
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)______

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.

<u></u>	1			CERTIFICATION
÷				I hereby certify that the information con- tained herein is true and complete to the best of my knowledge and belief.
		- - -	1	Name
				Curtis C. Parsons
		•	1	Position
1			1	District Engineer
l				Company Southland Royalty Company
1	SEC.	SF	080781	Date June 3, 1980
۱۱				
' 		1		I hereby certify that the well location
1		15		shown on this plat was plotted from field
1				notes of actual surveys made by me or
1				under my supervision, and that the same
i i		i		is true and correct to the best of my
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: T 1	· · · · · · · · · · · · · · · · · · ·		TI	
			1825'	Date Surveyed
Í				October 16, 1979
ļ	1			Registered Professional Engineer
1		810		and/or Land Surveyor
			J	Fred B. Kerr, Jr.
				Certificate No.
330 660 '90 132	0 1650 1980, 2310 2640	2006 1500	1000 800 0	3950



•••



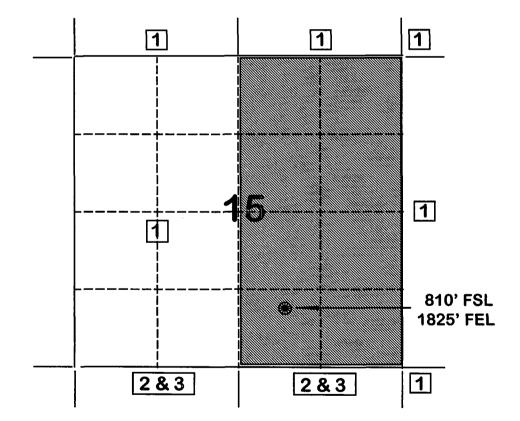
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BURLINGTON RESOURCES OIL AND GAS COMPANY

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	<u>CUM_GAS</u>	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

<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

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

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	9_ 01	AKOTA	11E	DATE: SCROLL		(YYMMDD FORM BY DATE:	AT)
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	24.0	1.20		135	2101	0.00	0.
	24.0	1.20	15.60	142	1966	0.00	0.
	24.0	1.20	14.40	142	1824	0.00	0.
	24.0	1.20	13.20	142	1682	0.00	0.0
06/10/97	24.0	1.20	12.00	154	1540	0.00	0.
06/09/97	24.0	1.20	10.80	154	1386	0.00	0.
06/08/97	24.0	1.20	9.60	154	1232	0.00	Ο.
	24.0	1.20	8.40	154	1078	0.00	0.
06/06/97	24.0	1.20	7.20	154	924	0.00	Ο.
06/05/97	24.0	1.20	6.00	154	770	0.00	0.
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PF12=MAIN M			=BACKWARDS	0=BROWSE	E MENU	PF11=INQ/UP PF24=HELP	
PF12=MAIN M				0=BROWSE	E MENU		
PF12=MAIN M MY JOB FDG055M4 S0	 IENU 904	PI ENTER:	=BACKWARDS LU #6				
PF12=MAIN M MY JOB FDG055M4 S0	1ENU 104	PI ENTER: WELL	=BACKWARDS LU #6	8/8'S V(DLUME	PF24=HELP 06/17/	97 11:43
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PF12=MAIN M MY JOB FDG055M4 S0 START OF DA DP NO: 775 CAIN S E DATE	IENU	PI ENTER: WELL HACRA -OIL	BACKWARDS LU #6 PRODUCTION 11E PRODN-	8/8'S VC DATE: SCROLI -GAS	DLUME 970615 FORWARD PRODN-	PF24=HELP 06/17/ (YYMMDD FORM) BY DATE: _ -WATER	97 11:43 MAT) PRODN-
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PF12=MAIN M MY JOB FDG055M4 S0 START OF DA DP NO: 775 CAIN S E DATE L PRODUCED 	ENU 004 TA 00 HOURS 0N 24.0	PI ENTER: WELL HACRA -OIL (BOPD 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	BACKWARDS LU #6 PRODUCTION 11E PRODN- BOPM) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	8/8'S VC DATE: SCROLI -GAS (MCFD 71 71 71 71 71 71 84 84 84	DLUME 970615 FORWARD PRODN- MCFM) 1123 1052 981 910 839 768 684 600	PF24=HELP 06/17/ (YYMMDD FORM) BY DATE: -WATER (BWPD 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	97 11:43 IAT) PRODN- BWP 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
PF12=MAIN M MY JOB FDG055M4 S0 START OF DA DP NO: 775 CAIN S E DATE L PRODUCED 	ENU 004 TA 00_ HOURS 0N 24.0	PI ENTER: WELL HACRA -OIL (BOPD 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	BACKWARDS LU #6 PRODUCTION 11E PRODN- BOPM) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	8/8'S VC DATE: SCROLI -GAS (MCFD 	DLUME 970615 FORWARD PRODN- MCFM) 1123 1052 981 910 839 768 684 600 516	PF24=HELP 06/17/ (YYMMDD FORM) BY DATE:	97 11:43 IAT) PRODN- BWP 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

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
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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 | 7750-1 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
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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

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

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Chacra	Dakota
<u>CH-Current</u>	<u>DK-Current</u>
GAS GRAVITY0.674COND. OR MISC. (C/M)C%N20.83%CO20.24%H2S0DIAMETER (IN)5.5DEPTH (FT)3086SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)102FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)435BOTTOMHOLE PRESSURE (PSIA)470.3	GAS GRAVITY0.674COND. OR MISC. (C/M)C%N20.83%CO20.24%H2S0DIAMETER (IN)1.9DEPTH (FT)6514SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)150FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)370BOTTOMHOLE PRESSURE (PSIA)432.1
<u>CH-Original</u>	<u>DK-Original</u>
GAS GRAVITY0.674COND. OR MISC. (C/M)C%N20.83%CO20.24%H2S0DIAMETER (IN)5.5DEPTH (FT)3086SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)102FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)1105.2	GAS GRAVITY0.674COND. OR MISC. (C/M)C%N20.83%CO20.24%H2S0DIAMETER (IN)1.9DEPTH (FT)6514SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)150FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)836BOTTOMHOLE PRESSURE (PSIA)988.7

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Cain 11E Sec150 T28N R10W Dakota/Chaira