د : 		PTGW
DATE IN	4,29,11 SUSPE	INSE ENGINEER DIKB LOGGED IN 4.29.11 TYPE DHC APP NO. 111957069
<u>.</u>	·	ABOVE THIS LINE FOR DIVISION USE ONLY NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505 APBA SEC 40 (3B ADMINISTRATIVE APPLICATION CHECKLIST 20-045-3//54
тн	IIS CHECKLIST IS N	MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
Applie	[DHC-Dov [PC-P	WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE ns: andard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] whole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] ool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] alified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF A [A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD
	Chec [B]	k One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
	[D]	Other: Specify
[2]	NOTIFICA [A]	<b>TION REQUIRED TO:</b> - Check Those Which Apply, or □ Does Not Apply 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]		CCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE CATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

4

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

WANETT MCCAULEY	, Wanett	McCauley	REGULATORY COMPLIANCE TECHNICIAN	<u>4/28/2011</u>
Print or Type Name	Signature		Title	Date
			wanett mccauley@xtoenergy.	com

DETERTION  Energy, Minerals and Natural Resources  APPLICATION    DNN W. Gad. Aces, NM 8200  OII Conservation Division	J. • ,	DISTRICT I 1625 N. French Dr., Hobbs, NM 88240	State of No		Amended Form C-107A Revised June 10, 2003
<form></form>					APPLICATION TYPE
DIRECT B  Sami Fe, New Mexico 8505  EXISTING FUEL    APPLICATION FOR DOWNHOLL COMMINCIANC	1.				Single Well Establish Pre-Approved Pools
APPLICATION FOR DOWNIOLE COMMINGLING		DISTRICT IV			EXISTING WELLBORE
Density  Addres  Description    Data  1136  SDE 25-127-120-0007  SDE 25-127-120-0007    OCHID IN:  5280  Property Code 28096  APIN: 30-055-33134  Lease Type  X_freedrag    DATA ELEMENT  UPPER ZONE  INTERMEDIATE ZONE  LOWER ZONE    Multi Mane  SOUTH BLANCO IC  OTRO CRUCKA  BLANCO MESANDERE    Pool Color  724.39  82329  723.19    Type and Bottom Or by Sterion  27621 - 28081'  37281 - 3861'  5038' - 5349'    Method of Production  Restrict Color  1.275  1.275    Production For Sterion  2762' - 2808'  3728' - 3861'  5038' - 5349'    Method of Production  Restrict Color  Restrict Color  Restrict Color    Batteriologi Production  Restrict Color  1.275  1.275    Pool Color  1.275  1.275  1.275    Pool Color  No  No  20/01/2011  Date    Batteriologi Production  Batteriologi Production  No  1.275  1.275    Pool Color  No  No  No  No  1.275    Pool Color  Date:  Date:  Date:  Date:  Date:    Restrict Color  No  No  No <td< td=""><td></td><td>1220 S. St. Francis Dr., Santa Fe, NM 87505</td><td>APPLICATION FOR DOW</td><td>NHOLE COMMINGLING</td><td>YesNo</td></td<>		1220 S. St. Francis Dr., Santa Fe, NM 87505	APPLICATION FOR DOW	NHOLE COMMINGLING	YesNo
Lease  With No.  Ultitude Selase Seray  Config    OCHO No.  5280  Property Code 28896  AP No. 20-0455-31154					PAC-4388
ORDER 528    Property Code 2009    PRIN 30-0245-31154    Least Type    Least Type <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
DATA ELEMENT      UPPER ZONE      INTERMEDIATE ZONE      LOWER ZONE        Road Name      SOUTH BLANDO PC      OTBO CRACKA      BLANDO MESANZEOR        Road Name      SOUTH BLANDO PC      OTBO CRACKA      BLANDO MESANZEOR        Pool Goals      72439      B2229      72339        Top and Internen ITP: Sterion      ZTG2' - 2808'      3728' - 3861'      5038' - 5349'        Method of Production      (Proving of Antificial Labo      APETIFICIAL LIPE      APETIFICIAL LIPE<		OGRID No 5380 Property Co	,	045 01154	
Prod Name    SUTH BLANCD FC    OTHOL GLAR    BLANCD MESANERDE      Pool Cade    724.33    62.32.9    72.31.9      Top and Bottom of Pay Section    2762.1 - 2808    372.81 - 386.1    503.81 - 5349 <sup>1</sup> Method of Production    Reverse Constraints    372.81 - 386.1    503.81 - 5349 <sup>1</sup> Method of Production    Reverse Constraints    372.81 - 386.1    503.81 - 5349 <sup>1</sup> Method of Production    ARTIFICIAL LIPE    ARTIFICIAL LIPE    ARTIFICIAL LIPE    ARTIFICIAL LIPE      Distribution Frazie    Base    3.50    62.00      Quege off as calify the nume as a flat 10% for    Base    3.400.1/2011    Rate      Productions    State off    Date    3.001/2011    Rate    3.001/2011      Date and Old StateWhere Rates of    Date    Date    3.001/2011    Rate    3.001/2011      Date and Old StateWhere Rates of    Date    Rate    Date    Date    Mode    3.001/2011      Colin The monormality and the state state state and the state state and the state state and th					
Pool Cade    72439    5229    72319      Exp and Bottom of Pry Section    2762' - 2808'    3728' - 3861'    5038' - 5349'      Privature of quest bit hum de    APTTFICTAL LIFE    APTTFICTAL LIFE    APTTFICTAL LIFE      Bottomiolo Pressare    Buter and the regard file bitim    APTTFICTAL LIFE    APTTFICTAL LIFE    APTTFICTAL LIFE      Bottomiolo Pressare    Buter and the regard file bitm      Inference on the transmitter of the regard file bitm    Buter and the regard file bitm    <			UFFER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Code    72439    5229    72319      Log and Battom of Pry Section    2762' - 2808'    3728' - 3861'    5038' - 5349'      Produced or Questife structure    Structure    APTIFICIAL LIFE    APTIFICIAL LI			· · · · · · · · · · · · · · · · · · ·		
Top and Bottom of Pay Section    2762* - 2808*    3728* - 3661*    5038 - 5349*      Method of Production    Revised of Production    ARTIFICIAL LIPE	,	Pool Name	SOUTH BLANCO PC	OTERO CHACRA	BLANCO MESAVERDE
Indexted of Production    Image: Control of Production    ANTIFICIAL LIFE    ANTIFICIAL LIFE    ANTIFICIAL LIFE    ANTIFICIAL LIFE    ANTIFICIAL LIFE      Bittornhold Pressure    Image: Control of		Pool Code	72439	82329	72319
(Flowing or Artificial Life)    APPLIFICIAL LIFE    APPLIFICIAL LIFE    APPLIFICIAL LIFE    APPLIFICIAL LIFE      Bottomolog Presure    Importance in the sear one invited 170% of the the third in production is the sear one invited 170% of the the search within 170% of the sequench within 170% of the search within 170% of the s			2762' - 2808'	3728' - 3861'	5038' - 5349'
(Meet: Present side using segment 10% of the segment of the top portunities is the segment of the se			ARTIFICIAL LIFE	ARTIFICIAL LIFE	ARTIFICIAL LIFE
predention in the two reason in which is type ration?    Jew 2010    Jew 2010    Jew 2010      O Giverview or Gas BTU    1.275    1.275      Producting, Shut-Fo or    NEW 2018    PRODUCING    PRODUCING      New Zone    NEW 2018    PRODUCING    PRODUCING      Last Production    Rates:    Rates:    Rates:    Rates:      (bit: For raw ones with the products in hiskey);    0    Date:    Rates:    Rates:      (bit: For raw ones with the products in hiskey);    0    Date:    Rates:    Rates:    Rates:      (bit: For raw ones with the products in hiskey);    0    Date:    Rates:    Rates:    Rates:    Rates:      (bit: For raw ones with the products in hiskey);    0    Date:    Rates:    Rates:    Rates:    Rates:      (bit: for products and interpolytic data as a medip on sending data in products and and regular data in products and and products and and as a medip on sending data in products and and as a medip on sending data in the product and and as a medip on sending data in the product and and as a medip on sending data in the product and as a medip on sending data in the product and as a medip on sending data in the product and as a medip on sending data in the product and as a medip on sending data in the product and as a medip on sending data in the product and as a medip on sending data in the produ					
deptorbacks in the upper amol    UP    QPU    QPU      OIL Gravity or Gas BTU    1.275    1.275      Producing, Shur-In or    NEW 20NE    PROUNTING    PROUNTING      Date and OIK(Gas/Water Rates of Loars    Rates:    Rates:    Rates:    3/01/2011      Date and OIK(Gas/Water Rates of Loars    Rates:    Rates:    Rates:    Date of OIK(Gas/Water Rates of Loars    Date:    Rates:    Date:    Rates:    Date:    Date:    Rates:    Rates:    Rates:    Rates:    Rates:    Date:    Rates:    Date:    Date: <td></td> <td></td> <td>120</td> <td>150</td> <td>(10)</td>			120	150	(10)
(Depend AT is CM STUD)    1.275    1.275      Producting, Shut-In or New Zone    NEW ZONE    PRODUCING    PRODUCING    PRODUCING      Date and Oli/Gas/Water Rates of Last Production    Date:    NEW ZONE    PRODUCING    PRODUCING    PRODUCING      (bite for an exact sthe production intery, repletent dult breagened) addata/production estants and repering data.)    Date:    Rates:    Date:    Date:    Rates:    Date:    Cate:    Date:    Date:    Cate:    Date:    Cate:					820
New Zone  NEW ZONE  PROUCING    Date and Ohl/Gas/Water Rates of Last Production  Date:  Date:  Date:  3/01/2011  Date:  3/01/2011    Last Production  Rates:  Rates:  Rates:  Rates:  Rates:  3    (Note For new ones with op production binary, spread stall be regarded to attach production estimates as septoring data.)  Date:  Date:  Date:  Date:    Fixed Allocation Percentage  Oil:  O  %  Gas:  Date:  Date:    Fixed Allocation Percentage  Oil:  O  %  Gas:  Date:  Rates:    Fixed Allocation Percentage  Oil:  O  %  Gas:  Date:  Date:    It an aruner at perdontion, septementing and royalty interests identical in all commingled zones?  Yes  No				1.275	1.275
Date and OilGas/Water Rates of    Date:    Rates:		-	NEW ZONE	PRODUCING	PRODUCING
(vbst: For new zones with no production estimated on stately production estimates and supporting data.)    Date:    Date:    Date:    Rates:    Date:    Rates:    Date:    Rates:    Date:    Rates:    Rates:    Rates:    Rates:    D				- /	
applicate shall be required to statuch production estimate and supporting data.)    Date: Rates:    Date: Rates:    Date: Rates:    Date: Rates:    Date: Rates:    Date: Rates:      Fixed Allocation Percentage (Nue: If allocation, supporting data or requirention, will be required.)    Oil: $\frac{1}{\sqrt{6}}$ Gas: Date: Rates:    Oil:    Oil: $\frac{1}{\sqrt{6}}$ Gas: Date: Rates:    No    Date: Rates:    Rates:    No    Date: Rates:    Coil:    No:    Date: Rates:    No:    Date:    No:    Date:    No:    Date:    No:    Date:    No:    Date:    No:    Date:    D			Rates:		
estimates and supporting data.)    Rates:    Rates:    Rates:    Rates:      Fixed Allocation Percentage (Note: If allocation a based upon someting other than curver or page production, supporting data or explosition will be required.)    0    %    Gas: 52    %    Oil: 0    %    Gas: 17    %    Oil: 100    %    Gas: 31      Are all working, overriding, and royalty interests identical in all commingled zones?    Yes    X    No			Date		
Note: If allocation is based your ampedding other    0    %    52    %    0    %    17    %    100    %    31      Itan current or prag production, supporting data or exploring of the required.)    Are all working, overriding, and royalty interests identical in all commingled zones?    Yes    X    No		estimates and supporting data.)			
Note: If allocation is based your ampedding other    0    %    52    %    0    %    17    %    100    %    31      Itan current or prag production, supporting data or exploring of the required.)    Are all working, overriding, and royalty interests identical in all commingled zones?    Yes    X    No		Fixed Allocation Percentage	Oil: Gas:	Oil: Gas:	Oil: Gas:
Are all produced fluids from all commingled zones compatible with each other?    Yes    X    No		(Note. If allocation is based upon something other than current or past production, supporting data or	<i>%</i>	<i>V</i>	V/2 1
Are all produced fluids from all commingled zones compatible with each other?    Yes    X    No			-	Yes X	No
Will commingling decrease the value of production?    Yes No _X      If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?    Yes _X No      NMOCD Reference Case No. applicable to this well:DHC-856AZ					
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes X No					
or the United States Bureau of Land Management been notified in writing of this application? Yes X No					
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. If application is to establish Pre-Approved Pools, the following additional information will be required: List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole presssure data.					No
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. If application is to establish Pre-Approved Pools, the following additional information will be required: List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole presssure data.		NMOCD Reference Case No. applicable to the	nis well:DHC-856AZ		
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. If application is to establish Pre-Approved Pools, the following additional information will be required: List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.		C-102 for each zone to be commingled Production curve for each zone for at le	east one year. (If not available, attach exp	planation.)	
List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.		Notification list of all offset operators. Notification list of working, overriding,	and royalty interests for uncommon inter	est cases.	
List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole presssure data.		If application is to establish Pre-Approved Po	ols, the following additional information	will be required:	
		List of all operators within the proposed Pre- Proof that all operators within the proposed I Bottomhole presssure data.	Approved Pools Pre-Approved Pools were provided notice	of this application.	
SIGNATURE Want McCauly TITLE REG COMPLIANCE TECHNICIAN DATE 4/28/2011		SIGNATURE Wanet	McCauley	TITLE REG COMPLIANCE TECH	NICIAN DATE 4/28/2011

E-MAIL	wanett_mccauley@xtoenergy.com

### **Brooks, David K., EMNRD**

From: Sent: To: Subject: Brooks, David K., EMNRD Tuesday, May 03, 2011 4:09 PM 'Wanett\_McCauley@xtoenergy.com' Bolack C #13B; DHC Application

Dear Ms. McCauley

Rule 19.15.12.11.A(3) requires, for DHC applications, that if the depth of the deepest perforation exceeds 150% of the depth of the shallowest perforations, bottom hole pressure data be supplied to demonstrate that pressures from the lower zone will not exceed the formation fracture pressure for any higher zone.

I am accordingly requesting that you supply BHP information for the Chacra and Mesverde for this well.

Thanks

David K. Brooks

## Brooks, David K., EMNRD

From: Sent: To: Subject:

315

Wanett\_McCauley@xtoenergy.com Wednesday, May 04, 2011 12:16 PM Brooks, David K., EMNRD Bolack C LS #12A & Bolack C #13B BHP data

Mr. Brooks,

Please find below the BHP data required for the Bolack C LS #12A and the Bolack C #13B. Thank you.

### For Bolack C LS 12A:

<u>Pictured Cliffs</u> Mid Perf Depth = 2807' Current Reservoir Pressure = 220 psi Fracture Parting Pressure = (2807') \* (0.65 psi/ft) = 1825 psi

<u>Chacra</u> Mid Perf Depth = 3730' Current Reservoir Pressure = 350 psi Fracture Parting Pressure = (3730') \* (0.65 psi/ft) = 2425 psi

<u>Mesaverde</u> Mid Perf Depth = 5195' Current Reservoir Pressure = 620 psi Fracture Parting Pressure = (5195') \* (0.65 psi/ft) = 3377 psi

In the Bolack C LS 12A, pressures from the lower zones will not exceed fracture parting pressure of the higher zones

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#### For Bolack C 13B: Pictured Cliffs

Mid Perf Depth = 2786' Current Reservoir Pressure = 220 psi Fracture Parting Pressure = (2786') \* (0.65 psi/ft) = 1811 psi

<u>Chacra</u> Mid Perf Depth = 3734' Current Reservoir Pressure = 350 psi Fracture Parting Pressure = (3734') \* (0.65 psi/ft) = 2427 psi

<u>Mesaverde</u> Mid Perf Depth = 5194' Current Reservoir Pressure = 620 psi Fracture Parting Pressure = (5194') \* (0.65 psi/ft) = 3376 psi

In the Bolack C 13B, pressures from the lower zones will not exceed fracture parting pressure of the higher zones

-----

Thank you,

Geoffrey Steiner Operations Engineer San Juan Division XTO Energy

Office: (505) 333-3650 Mobile: (505) 787-0857

#### Wanett McCauley/FAR/CTOC

To Geoffrey Steiner/FAR/CTOC@CTOC cc Subject Fw: Bolack C LS #12A; DHC Application

05/04/2011 07:11 AM

Good morning Geoff,

Below is and email from David Brooks requesting BHP info for this well. Could you get that information for him. Thanks.

Wanett McCauley Regulatory Compliance Technician XTO Energy, Inc. a subsidiary of ExxonMobil Office: 505.333.3630 wanett\_mccauley@xtoenergy.com ----- Forwarded by Wanett McCauley/FAR/CTOC on 05/04/2011 07:07 AM -----"Brooks, David K., EMNRD" <<u>david.brooks@state.nm.us</u>> To "W

To "Wanett\_McCauley@xtoenergy.com" < Wanett\_McCauley@xtoenergy.com>

05/03/2011 04:21 PM

сс

Subject Bolack C LS #12A; DHC Application

Dear Ms. McCauley

Rule 19.15.12.11.A(3) requires, for DHC applications, that if the depth of the deepest perforation exceeds 150% of the depth of the shallowest perforations, bottom hole pressure data be supplied to demonstrate that pressures from the lower zone will not exceed the formation fracture pressure for any higher zone.

I am accordingly requesting that you supply BHP information for the Chacra and Mesverde for this well.

Thanks

David K. Brooks

Bolack C 13B - Allocations

Build from the Pictured Cliffs Reservoir within the 9 Section surrounding the Bolack C 13B Drilled after 2000      CUMUL      CUMUL      CUMUL      AVERAGE      AVERAGE        NO.      RESERVOIR      Section      Township      Range      FELD      Ist PROD      DAYS ON      OIL (BL)      GAS (MCF/D)      WATER (BL/D)      VATER (B		FLORANCE D	BOLACK C	BOLACK C	LEASE	Wells Only Pro
ed Cliffs Reservoir within the 9 Section surrounding the Bolack C 13B Dnilled after 2000      CUMUL      CUMUL      CUMUL      AVERAGE		19	2R	26	NO.	the section
in the 9 Section surrounding the Bolack C 13B Dnilled after 2000 Section Township Township C N Range FIED OPERATOR 1st PROD LAST PROD DAYS ON OIL (BBL) GAS (MCE/) WATER (BBL) OIL (BBLD) OAS (MCE/D) WATER ( 33 27 N 8 W BLANCO TO ENERGY 20050930 20101001 1690 0 74926 165 0 00 74-32 28 27 N 8 W BLANCO XTO ENERGY 20050238 20101001 1227 10 58260 0 0 0 74-32 20 27 N 8 W BLANCO XTO ENERGY 20050238 20101001 1227 0 15431 660 0 0 0 74-32 20 27 N 8 W BLANCO XTO ENERGY 20050238 20101001 1227 0 15443 660 0 0 0 74-32 20 27 N 8 W BLANCO XTO ENERGY 20050238 20101001 2078 0 15443 660 0 00 74-32 20 27 N 8 W BLANCO XTO ENERGY 20050238 20101001 2078 0 15443 660 0 00 74-32 20 27 N 8 W BLANCO XTO ENERGY 20050238 20101001 2078 0 15443 660 0 00 74-32 10 15443 660 0 00 74-34 10 15443 660 0 00 74-34	a to a	PICTURED CLIFFS	PICTURED CLIFFS	PICTURED CLIFFS	RESERVOIR	ed Cliffs Reservoir v
Image      File      Description      Cumul      Clumul      Clumul      AVERAGE      AVE		20	28	33	Section	in the 9 Secti
Bolack C 13B Drilled after 2000      AVERAGE      AVERAGE <th< td=""><td>,</td><td>2</td><td></td><td></td><td>Township</td><td>on surrounding th</td></th<>	,	2			Township	on surrounding th
13B Dniled after 2000    1st PROD    LAST PROD    DAYS ON    OIL (BBL)    CUMUL    CUMUL    AVERAGE    AVERAGE    AVERAGE      w    FIELD    OFFERATOR    1st PROD    LAST PROD    DAYS ON    OIL (BBL)    GAS (MCF)    WATER (BBL)    OIL (BBLD)    OIL (ABLD)    OIL (		7 N 7	7 N 7	7 N   8	Ran	he Bolack (
OLIVERACE      CLUMUL      CLUM		B W BLA	BW BAS	B W BLA	ge FIEL	C 13B Drille
OLIVERACE      CLUMUL      CLUM		NCO XTC	IN XTC	NCO XTC	D OPE	d after 200
CUMUL      CUMUL      CUMUL      CUMUL      AVERAGE      AVERAG		) ENERGY	) ENERGY	) ENERGY	RATOR	8
CUMUL      CUMUL <th< td=""><td></td><td>2005022</td><td>2007053</td><td>2005093</td><td>1st PROD</td><td></td></th<>		2005022	2007053	2005093	1st PROD	
CUMUL      CUMUL      CUMUL      AVERAGE      AVERAGE      AVERAGE      AVERAGE        1690      0.1(BBL)      GAS (MCF)      WATER (BBL)      OIL (BBL)      GAS (MCF)      WATER (BBL)      00      A4 33        1227      10      58260      0      001      44 33        2078      0      15421      680      000      74 32        2078      0      15441      Average      000      74 32		8				
CUMUL      CUMUL      AVERAGE      AVERAGE      AVERAGE      AVERAGE        OIL (BBL)      GAS (MCF)      WATER (BBL)      OIL (BBLC)      VATER (BBL)      VATER (BBL)      OIL (BBLC)      VATER (BBL)      <					DAYS ON	
CUMUL      AVERAGE      AVERAGE      AVERAGE        F)      WATER (BL)      OIL (BBL/D)      GAS (MCF/D)      WATER (BL)        1926      0      0.00      44.33      33        23260      0      0.00      47.46      34        1431      680      0.00      74.35      34        1431      680      0.00      74.35      34		2078	1227	1690	₽	2
CUMUL      AVERAGE      AVERAGE      AVERAGE        F)      WATER (BL)      OIL (BBL/D)      GAS (MCF/D)      WATER (BL)        1926      0      0.00      44.33      33        23260      0      0.00      47.46      34        1431      680      0.00      74.35      34        1431      680      0.00      74.35      34			1		- (BBL)	MUL
AVERAGE      AVERAGE      AVERAGE        (BBL)      OIL (BBL/D)      GAS (MCF/D)      WATER (I        00      44.33      47.44      40.00        60      0.00      74.32      74.33        680      0.00      74.32      55563		154431	58260	74926	GAS (MCF)	CUMUL
E AVERAGE AVERAGE (D) GAS (MCF/D) WATER (1 0.00 47.43 0.00 74.32 0.00 74.32 0.00 55/38	Average	989	0	155	WATER (BBL)	CUMUL
3E AVERAGE CF/D) WATER ( 44 33 47 48 74 32 74 32 755/38	0	0	0.	0	OIL (BBL/D)	AVERAGE
AVERAGE WATER (	100 55!31	00 74.3.	01 47.48	00 44.3	GAS (MCF/D)	AVERAGE
	3 0114	2 0.33	0.00	3 0.09	WATER (BBL/D)	AVERAGE



	Q	Gas	Water
Pictured Cliffs	0%	52°	6 · 16%
Chacra	%0	179	×0 %
Mesaverde	100%	31%	84%

# Last 12 Months Production For the Bolack C 13B

Chacra Produ							
			Water				
	Oil Prod	Gas Prod	Prod		Oil	Gas	Water
	(BBL)	(MCF)	(BBL)	Days On	(BBL/D)	(MCF/D)	(BBL/D)
11/30/2009	0	517	0	30	0.00	17.23	0.00
12/31/2009	0	437	0	31	0.00	14.10	0.00
1/31/2010	0	315	0	31	0.00	10.16	0.00
2/28/2010	0	261	0	28	0.00	9.32	0.00
3/31/2010	0	486	0	31	0.00	15.68	0.00
4/30/2010	0	454	0	30	0.00	15.13	0.00
5/31/2010	0	450	0	31	0.00	14.52	0.00
6/30/2010	0	682	0	30	0.00	22.73	0.00
7/31/2010	0	666	0	31	0.00	21.48	0.00
8/31/2010	0	645	0	23	0.00	28.04	0.00
9/30/2010	0	643	0	30	0.00	21.43	0.00
10/31/2010	0	648	0	31	0.00	20.90	0.00
AVERAGE					0.00	17.56	0.00

### Chacra Production

## Mesaverde Production

			Water				
	Oil Prod	Gas Prod	Prod		Oil	Gas	Water
	(BBL)	(MCF)	(BBL)	Days On	(BBL/D)	(MCF/D)	(BBL/D)
11/30/2009	3	960	0	30	0.10	32.00	0.00
12/31/2009	3	812	0	31	0.10	26.19	0.00
1/31/2010	12	585	5	31	0.39	18.87	0.16
2/28/2010	3	485	0	28	0.11	17.32	0.00
3/31/2010	3	903	0	31	0.10	29.13	0.00
4/30/2010	3	843	0	30	0.10	28.10	0.00
5/31/2010	0	836	0	31	0.00	26.97	0.00
6/30/2010	. 0	1267	40	30	0.00	42.23	1.33
7/31/2010	0	1237	0	31	0.00	39.90	0.00
8/31/2010	0	1198	80	23	0.00	52.09	3.48
9/30/2010	0	1195	60	30	0.00	39.83	2.00
10/31/2010	0	1203	55	31	0.00	38.81	1.77
AVERAGE					0.07	32.62	0.73