JONES SMIGNEER

10/13/06 LOGGED IN DHC TYPE

DLC0628951001

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

TH	HIS CHECKLIST IS M	ANDATORY FOR ALL ADMINISTRATIVE APPLI	CATIONS FOR EXCEPTIONS TO DIVISION THE DIVISION LEVEL IN SANTA FE	RULES AND REGULATIONS
Applic	[DHC-Dow	B: ndard Location] [NSP-Non-Standard nhole Commingling] [CTB-Lease (ol Commingling] [OLS - Off-Lease [WFX-Waterflood Expansion] [PM	l Proration Unit] [SD-Simultaned Commingling] [PLC-Pool/Lease Storage] [OLM-Off-Lease Mea X-Pressure Maintenance Expans Pl-Injection Pressure Increase]	Commingling] surement] ion]
[1]	TYPE OF AF	PLICATION - Check Those Which Location - Spacing Unit - Simultan NSL NSP SD		
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurer DHC CTB PLC		ſ
	[C]	Injection - Disposal - Pressure Incre WFX PMX SWD	ease - Enhanced Oil Recovery IPI	
	[D]	Other: Specify		
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Tho Working, Royalty or Overriding	·	pply
	[B]	Offset Operators, Leaseholder	s or Surface Owner	
	[C]	Application is One Which Red	juires Published Legal Notice	
	[D]	Notification and/or Concurren U.S. Bureau of Land Management - Commission	t Approval by BLM or SLO oner of Public Lands, State Land Office	
	[E]	For all of the above, Proof of I	Notification or Publication is Attac	hed, and/or,
	[F]	☐ Waivers are Attached		
[3]	SUBMIT AC	CURATE AND COMPLETE INFO	DRMATION REQUIRED TO P	ROCESS THE TYPE
[4] approv applica	val is accurate a ation until the re	FION: I hereby certify that the information and notifications a	edge. I also understand that no ac ure submitted to the Division.	tion will be taken on this
	Note:	Statement must be completed by an indivi	qual with managerial and/or supervisory	, capacity.
Print or	r Type Name	Signature	Title	Date
			e-mail Address	

District I

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

District II

District III
1000 Rio Brazos Road

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION TYPE X_Single Well Establish Pre-Approved Pools
EXISTING WELLBORE
X Yes No

District IV

E-MAIL ADDRESS_

mike@pippinllc.com

APPLICATION FOR DOWNHOLE COMMINGLING

1220 S. St. Francis Dr., Santa Fe, NM 87503	ATTECATION FOR BOY	THIOLE COMMINICACE	<u> </u>	
BLACK HILLS GAS RESOUR	RCES, INC. c/o Mike P	ippin LLC (agent), 3104 N. Sullivan, Far	mington, NM 87401	
Operator	2008 OFT 1 A	idress DM 2 10	10-2815)	
JICARILLA 29-02-21 #31	1000 001 TO	L SEC. 21 T29N R02W	Rio Arriba	
Lease	Well No. Unit Letter	r-Section-Township-Range	County	
OGRID No. <u>013925</u> Property Code	e <u>32537</u> API No. <u>30-039-295</u>	23 Lease Type: X Federal	StateFee	
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE	
Pool Name	La Jara Canyon Tertiary	Basin Fruitland Coal	East Blanco Pictured Cliffs	
Pool Code	97036	71629	72400	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	1156'-92'	3424'-36'	3460'-97'	
Method of Production (Flowing or Artificial Lift)	Now Flowing Plan to Pump	Now Flowing Plan to Pump	Now Flowing Plan to Pump	
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the	258	1130	1150	
depth of the top perforation in the upper zone)	1050			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1052	1125	1185	
Producing, Shut-In or New Zone	Producing Above PKR	Producing Below PKR DHC-3726	Producing Below PKR DHC-3726	
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production	Date: 10/9/06	Date: 2/21/06	Date: 2/15/06	
estimates and supporting data.)	Rates: 56 MCF/D & 0 BWPD	Rates: 11 MCF/D	Rates: 407 MCF/D	
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas	
than current or past production, supporting data or explanation will be required.)	0% 12%	0% 2%	100% 86%	
Are all working, royalty and overriding If not, have all working, royalty and ow	royalty interests identical in all con		Yes X No No No No	
Are all produced fluids from all commi		,	Yes X No	
Will commingling decrease the value of	f production?		YesNo_X	
If this well is on, or communitized with or the United States Bureau of Land Ma			Yes <u>X</u> No	
NMOCD Reference Case No. applicable	le to this well:			
Attachments: C-102 for each zone to be comming Production curve for each zone for For zones with no production histor Data to support allocation method of Notification list of working, royalty Any additional statements, data or of the statements.	at least one year. (If not available, ry, estimated production rates and s or formula. and overriding royalty interests for	attach explanation.) upporting data. uncommon interest cases.		
List of other orders approving downhol List of all operators within the proposed Proof that all operators within the proposed Bottomhole pressure data.	to establish Pre-Approved Pools, the commingling within the proposed if Pre-Approved Pools user proved Pools were proved	rided notice of this application.		
I hereby certify that the information SIGNATURE Media	_//) .	ne best of my knowledge and belief Petroleum Engineer - Agent DA		
TYPE OR PRINT NAME M	like Pippin	TELEPHONE NO. (50		

BLACK HILLS GAS RESOURCES, INC. JICARILLA 29-02-21 #31 PC/FRTC/TERTIARY L Section 21 T29N R02W 10/10/2006

Commingle Allocation Calculations

OIL

The Basin Fruitland Coal and Tertiary gas pools do not make oil in this portion of San Juan Basin. Therefore, any and all oil will be assigned to the Pictured Cliffs.

GAS

During completion operations, stabilized choke tests were individually taken for the Pictured Cliffs, the Fruitland Coal, and the Tertiary gas pools.

The <u>Pictured Cliffs (only) choke test</u> stabilized at 50 psi on a ½" choke for a 12 hour period on 2/15/06.

Q = .0555*C*P C= coefficient for $\frac{1}{2}$ " choke = 112.72

P = gauge pressure + 15 psi = 65 psi.

Q = .0555*112.72*65 = 407 MCF/D.

The <u>Fruitland Coal (only) choke test</u> stabilized at 17.7 psi on a 1/8" choke for a 17 hour period on 2/21/06.

Q = .0555*C*P C = coefficient for 1/8" choke = 6.25

P = gauge pressure + 15 psi = 32.7 psi.

Q = .0555*6.25*32.7 = 11 MCF/D.

The <u>Tertiary (only) metered gas</u> on 10/9/06 was **56 MCF/D** and 0 BWPD. This well is producing above a pkr up the tbg annulus to a separate meter.

Total gas = 407 + 11 + 56 = 474 MCF/D.

% Pictured Cliffs =
$$\frac{407}{474}$$
 = 86%

% Fruitland Coal =
$$\frac{11}{474}$$
 = 2%

ADDITIONAL EXPLANATION

This well is currently producing up the tubing from commingled FRTC/PC intervals below a packer at 2881' with DHC-3726. The Tertiary produces from the annulus through the casing valve to a separate meter. See the attached wellbore diagram. Since both sides are having problems producing, Black Hills Gas Resources would like to trimingle and pump the well. Both sides were recently 1st delivered on 7/20/06.

DESTRUCT I 1625 M. Fremen Dr., Hobbs, F.M. 88240

DESTRICT II 1201 W. Grand Ave., Artesta, N.M. 68210

State of New Mexico Buergy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised June 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Pee Lease - 3 Copies

AMENDED REPORT

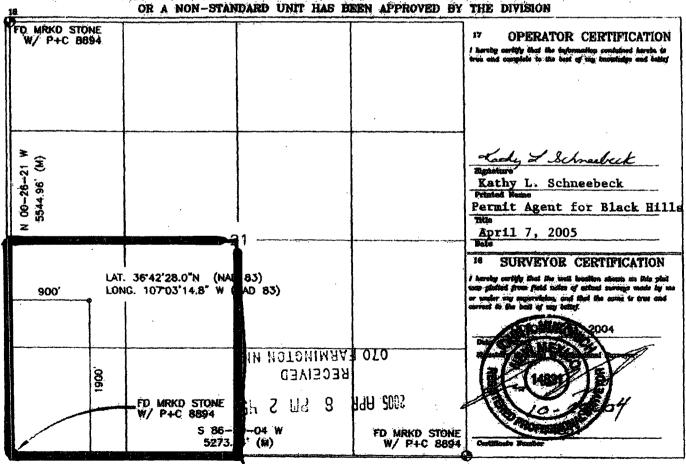
DISTRICT IV 1220 South St. Francis Dr., Santa Pe, NM 87606

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30-039-	- ス・	9523	72400			E. Blanco / Pictured Cli			ffs * Yell Number		
Property Code				Property Home							
2424533537						31					
OCRED No.				*Operator: Name							
013925	l			BLACK HILLS GAS RESOURCES					7077'		
		***************************************	····		10 Surface	Location					
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L 2	21	29-N	2-W		1900	SOUTH	900	WEST	RIO ARRIB		
			" Bott	om Hole	Location	l Different Fr	om Surface				
Di or let no Se	of loss	Tenenghin	Dente	TAR Man	Sant from the	Morth Acuth Bon	Food from the:	Bont /Want Hos	Pinnite		

160 acres - SW/4

no allowable will be assigned to this completion until all interests have been consolidated OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

1800 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Conta Eo. NM 97505

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

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I	1		1			1	Cartificate N		



District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1990 Rio Branes Rd., Astec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

1 API Number

30-039-29523

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

² Pool Code

71629

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

Basin Fruitland Coal

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

32537									
34331					31				
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#### JIC 29-02-21 #31

#### **Current Wellbore Diagram**

API # 30-039-29523

# UNIT L NW SW, Sec 21, T29N, R02W Rio Arriba, NM Spud Date 1-4-06

Elev. GL= 7077' Elev. KB= 7090 '

	1 1	1 <b>1</b>	TUBING DETAIL	
<u> </u>			KB	13
•			91 JOINTS 2-3/8" TBG	2862.14
SURF CSG			MODEL R PKR	6.85
8 5/8" 24# J-55			18 JOINTS TBG 2-3/8"	566.63
@297' KB, TOC surf	4		SN	1.1
(LOT NO, 100 out) 2	-		MULE SHOE	0.4
			EOT	3449.72
	<b>├</b> ┤	<del>     </del>		
			SAN JOSE PERFS: 1156'-61', 1171'-82', SPF PERF IN ACID, BROKE DOWN W/5 HCL	
			SQUEEZE HOLES @ 1340' PUMP 70 SX OF CEMENT 930'	S CEMENT TOP
PROD CASING			FRTC PERFS: 3424'-36' 6 SPF, FRAC W 40 BRADY XL FOAM SCREENED OFF O	
5 1/2" 15.5# @ 3625' KB; cmt; 445 sx 65/35 Poz lead, + 150 sx 50/50/3 Poz tail. TOC= 930' - CBL			Pictured Cliffs perfs: 3460'-62', 3466'-74 97': frac w/ 100720# 20-40 slick water foa	
			PBTD= 3603'	

Prepared:

9-Jun-06