C.S. -02-005

[NM-5] Form C-132

State of New Mexico

Energy and Minerals Department

Oil Conservation Division

2040 Pacheco Street 1220 South St. Francis De

Santa Fe, New Mexico 87505

APPLICATION FOR CATEGORY DETERMINATION

USE ONLY: APPROPRIATE FILING FEE ENCLOSED? YES NO DATE COMPLETE APPLICATION FILED <u>December 26, 2001</u> DATE DETERMINATION MADE <u>Movember 20, 2002</u> WAS APPLICATION CONTESTED? YES NO NAME(S) OF INTERVENOR(S), IF ANY: <u></u>	FILING FEE(S) - Effective October 1, 1986 a non-refundable filing fee of \$25.00 per category for each application is mandatory (Rule 2, Order No. R-5878-B-3)
1. Name of Operator: Burlington Resources Oil & Gas Company	6. County: Rio Arriba
2. Address of Operator:	7. API No: 30-039-24739
5051 Westheimer, Suite 1400 Houston, TX 77210-4236	 Indicate Type of Lease: State X Fee
 Location of Well: Unit Letter <u>A</u> located <u>790</u> feet from the <u>N</u> line and <u>790</u> feet from the <u>E</u> line of Sec. <u>36</u> Twp. <u>27N</u> Rng. <u>06W</u> 	9. State Oil & Gas Lease No.: E-291-35
4. Farm or Lease Name: Johnston A	10. Unit Agreement Name:
5. Well No: 16	11. Field and Pool or Wildcat: Basin Fruitland Coal
	natural gas from coal seam
 A3 2 natural ga 2. Filing Fee(s) amount enclosed: S25.00 3. All application must contain: a. C-105 Well Completion or Recompletion Report 	as from a designated tight formation

b. Affidavits of Mailing or Delivery

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

David K. Miller NAME OF APPLICANT (Type or Print)

ann SIGNATURE OF APPLICANT

TITLE: Manager, Royalty Compliance/Litigation

DATE: December 18, 2001

FOR DI	VISION USE ONLY
APPROVED:	DISAPPROVED:
The information contained herein includes all of Subpart B of Part 274 of the FERC regulations EXAMINER:	the information required to be filed by the applicant under



December 18, 2001

DEC 2 6 200

Mr. Michael Stogner State of New Mexico Energy and Minerals Department Oil Conservation Division 2040 Pacheco Street Santa Fe, NM 87505

Re: Application for Well Determination NGPA Section 107 Johnston A #16 Sec. 36, T-27N, R-6W Rio Arriba Co., NM

Dear Mr. Stogner:

Burlington Resources Oil & Gas Company is enclosing, for review and approval by the New Mexico Oil Conservation Division, the original and two copies of an Application for Determination for the referenced well. Also enclosed is Burlington's check for \$25.00 covering the State of New Mexico filing fee.

A copy of this letter, the FERC Form 121 and the OCD Form C-132 has been mailed to each working interest owner entitled to receive Notice of this Application.

Please indicate receipt of this filing by date stamping the attached extra copy of this letter and returning the copy for our records.

Sincerely, IK.Mill annal

David K. Miller Manager, Royalty Compliance/Litigation

enclosures

xc: NGPA File

APPLICATION FOR DETERMINATION

A. THE NGPA WELL CATEGORY DETERMINATION IS BEING SOUGHT FOR A WELL PRODUCING:

- A1 _____ occluded natural gas from a coal seam.
- A2 _____ natural gas from Devonian shale.
- A3 _____ natural gas from a designated tight formation.

B. FOR ALL APPLICATIONS FOR DETERMINATION PROVIDE THE FOLLOWING:

- 1. Well Name and No.: Johnston A #16
- 2. Completed in (Name of Reservoir): Fruitland Coal
- 3. Field: Basin

4. County: San Juan Rio Arrika

- 5. State: New Mexico
- 6. API Well No.: 30-039-24739
- 7. Measured Depth of the Completion Interval (in feet) TOP: 3,129 BASE: 3,217

C. APPLICANT'S MAILING ADDRESS AND THE IDENTITY OF THE PERSON WHO IS RESPONSIBLE FOR APPLICATION:

- 1. Applicant's Name: Burlington Resources Oil & Gas Company
- 2. Street: 5051 Westheimer, Suite 1400
- 3. City: Houston
- 4. State: Texas
- 5. Zip Code: 77056-5604
- 6. Name of Person Responsible: David K. Miller (713) 624-9086
- 7. Title of Such Person: Manager, Royalty Compliance/Litigation

8. Signature ann Date: December 18, 2001

APPLICATION FOR WELL CATEGORY DETERMINATION PURSUANT TO SECTION 270 OF THE FEDERAL ENERGY REGULATORY COMMISSION'S REGULATIONS IMPLEMENTING THE NATURAL GAS POLICY ACT OF 1978 (NGPA)

AFFIDAVIT COAL SEAM NATURAL GAS

STATE OF TEXAS

COUNTY OF HARRIS

BEFORE ME, the undersigned authority, duly commissioned and qualified within and for the State and County aforesaid, personally came and appeared David K. Miller, who being by me first duly sworn, deposed and said:

That he is the Manager, Royalty Compliance/Litigation for Burlington Resources Oil & Gas Company, the applicant for the well hereinafter described, and in that capacity, he is requesting the appropriate Authorized Officer to make a determination that this well is producing from a coal seam formation pursuant to the rules and regulations of the State of New Mexico and the Federal Energy Regulatory Commission (FERC), as such rules relate to the NGPA.

That production from the **Johnston #A** well, **API No. 30-039-24739** is natural gas produced from a FERC approved coal seam formation, through:

- X_ a well the surface drilling of which began after December 31, 1979, but before January 1, 1993; or
- a recompletion commenced after January 1, 1993, in a well the surface drilling of which began after December 31, 1979, but before January 1, 1993; or
- a recompletion commenced after December 31, 1979, but before January 1, 1993, where such gas could not have been produced from any completion location in existence in the well bore before January 1, 1980.

And, that a copy of this filing has been mailed to each owner entitled to receive such a copy.

Said applicant has no knowledge of any information not described in the application that is inconsistent with his conclusion.

V Mill

David K. Miller, Manager, Royalty Compliance/Litigation

Subscribed in my presence and duly sworn to before me, this 18th day of December 2001.

Kild ary Public

NMOCD CS Affidavit



My Commission Expires:

Subdit 3 Copies to Appropriate District Office	Energ,	State of New Me Jais and Natural Re			Form C-1 Review 1	
DISTRICT I P.O. Bas 1980, Hobbs, NM 88240	OIL CO			WELL AFT NO.		P
DISTRICT II P.O. Dawer DD, Antenin, NM 88210	Santa	P.O. Baxilos	87504-2088	30	<u>)≁039-24739</u>	
DISTRICT III 1000 Rio Brazos R4., Aziec, NM 87410			G2 4 1990	S. Indicata Type	STATE	FEE
			CON. DIV	6. State Oil & G	3as Lease No.	
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I. Type of Well: Cal. CAS. WELL FOR		OTHER			ohnston A	
2. Name of Openaor				8. Well No.		
Union Oil Company of Address of Operator	Californi	la		16	-	
P. O. Box 671 - Midl	and, TX 79	9702		9. Pool anns or Basin	Fruitland Coa	1
Unit Letter <u>A</u> : 790		The north) Feel Fra		Line
<u>Section</u> 36	Township	Z/N Ri Elevation (Show whether	DE REPETICE	NMPM Rio	Arriba	County
		6598' G	R			
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11. Check	Appropriate	Box to Indicate	Nature of Notice, H	Report, or Oth	er Data	
II. Check NOTICE OF IN	Appropriate TENTION	Box to Indicate 1 TO:			er Data REPORT OF:	
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API #30-039-24739 Field - Basin Fruitland Coal Lease - Johnston A Well No. 246

ND TREE NU TREE SAVER. HONCO FOAN FRAC'D FRUITLAND COAL PERFS 3129-3217' DN 4-1/2" CSG W/24,000 GAL 30# XLB GEL 8/13 W/240,000# 20-40 SD W/1,037,000 SCF N2 @ 27,500-16,800 SCF/MIN. FL RATE 12.1-22.5 BPM, DOWNHOLE FOAN RATE 56-37 BPM @ 2490-3060-2200 PSI. ISIP 1190 PSI (5) 1050 (10) 1020 (15) 1010 (30) 990. TLTR 613 BBLS. OPENED TO FLW ON 8/64" CHK AFTER 6 HRS SI. 6 HR SICP 800 PSI. FLWD FLUSH H20 THEN N2 W/HEADS OF H20, THEN HEAVY MIST W/1/2" STRM H20, FCP-800-1475-1250 PSI. TR 120 BLW OF 613 BTL.

CONT'D FLWG TO PIT ON 16/64" CHK. FCP 480-120 PSI. INSTALLED ADJUSTABLE CHK & GRADUALLY OPENED FROM 20/64" TO 48/64" DEFLWD GAS W/HEAVY MIST. FCP 120-25 PSI. KILLED WELL W/20 BFW. ND TREE SAVER. RIN W/GUIBERSON 2-3/8" HYDROSTATIC TBG BAILER ON 2-3/8" TBG. TAGGED SD & 3169'. CLEANED OUT TO PBTD 3269'. R&L 100 JTS 2-3/8 4.70# J-55 &RD EUE PROD TBG W/NOTCHED CLR & SN ON BTN (3137.74') LANDED AT 3149'. ND BOP NU TREE. WELL KICKED OFF W/1 SWAB RUN. FLWD TO PIT 4 HRS. FCP 0-100 PSI. TURNED THRU TEST SEP & 7:00 PM 8-15-90. CP 115-100 PSI, FTP 18 PSI, SEP PRESS 17 PSI. RECV'D 5 BW IN 10 HRS. GAS RATE 195 MCFPD, 48/64" CHK, TEMP 50'. TR 196 BLW OF 613 BTL.

RD MO AZTEC WELL SERVICE RIG 65. FLWD THRU TEST SEP 24 HRS, CP-100 PSI, FTP-15-30 PSI, SEP PRESS 17-28 PSI. FLWD 3 BW IN 24 HRS, GAS RATE 189 MCFPD, TEMP 55°, 48/64" CHK. TR 199 BLW OF 614 BTL.

8/17 FLWD 214 MCF + 2 BW/24 HRS THRU 48/64" CHK W/28-40# FTP, 25-37# SEP PRESS & 100# CP @ 50"F. TR 201 OF 601 BLW.

8/18 FLWD 234 MCF + 3 BW/24 HRS THRU 48/64" CHK W/64# FTP, 125-100# CP, & 58# SEP PRESS @ 61*F. TR 204 OF 601 BLW.

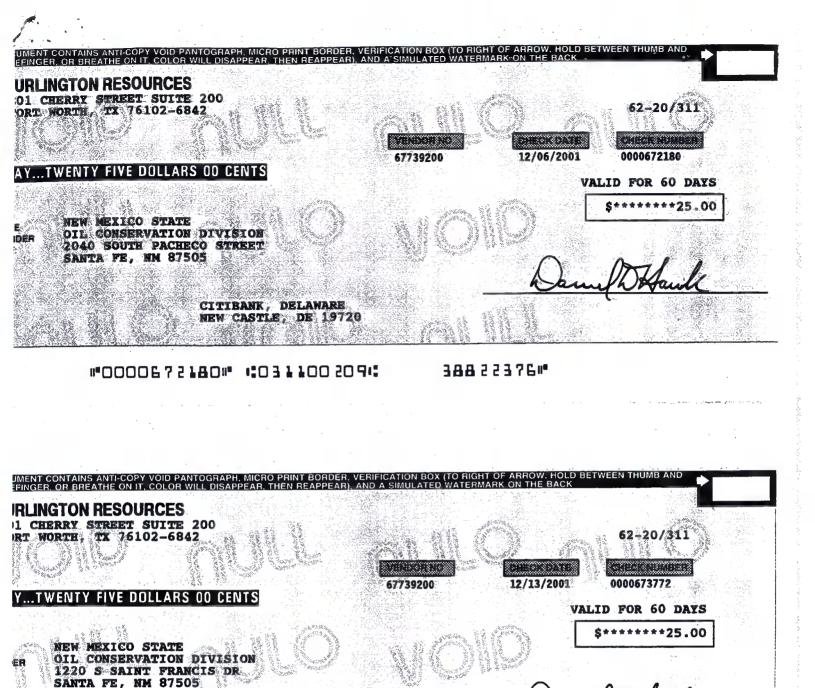
8/19 FLWD 24 HRS THRU TEST SEP. CP-120-150 PSI, FTP 65-105 PSI. SEP PRESS 55-100 PSI. REC'D 3 BW IN 24 HRS, GAS RATE (24 HR AVG) 265 MCFPD, TEMP 53-75°, 48/64" CHK. TR 207 NBLW OF 601 BTL.

Page 2

B IN I	REAMIN	ERALS AND N. 52	MUHRENE RICS(OLH) 4:	N	o. <u>117307</u>
Officia Receiv	al Receipt red from: <u>R(</u>	- Burlingt	ton Resource	Date: 12/28 Dollar Amount	× 01 50,00
	AMOUNT NUMBER	CENTER NUMBER	CREDIT AMOUNT	DEPOSIT NUMBER	WORK ORDER NO.
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60	3410				
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60	4240		· ·		
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		TOTAL [ing Fees	50,00		

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CITIBANK, DELAWARE New Castle, DE 19720

#0000673772# #031100209#

Jaul

Stogner, Michael

From: Sent: To: Subject: Gilcrease Jim [JGilcrease@br-inc.com] Wednesday, July 24, 2002 10:09 AM mstogner@state.nm.us NGPA Well Determination Filing Review



VMOCD NGPA Filing List (Approv...

Mike, Burlington Resources submitted the Well Determination Filings referenced on the attached list for NMOCD review and approval several months ago and todate we do not show that action has been taken on them. Can you please check the status of these filings and let me know where they stand?

Jim Gilcrease Burlington Resources 5051 Westheimer, Suite 1400 Houston, TX 77056-5604 713-624-9092 jgilcrease@br-inc.com

<<NMOCD NGPA Filing List (Approval follow up).xls>>

PENDING NGPA FILINGS - NEW MEXICO OIL CONSERVATION DIVISION

WELL NAME	API NO.	LOCATION	COUNTY	FORMATION	DATE MAILED TO NMOCD
Mangum # 1E Sategna #2E Johnston A #16 Mexico Federal N #1E Culpepper Martin #1E Kelly Knott #1A New Mexico B Com #1E	30-045-24673 30-045-24060 30-039-24739 30-045-08332 30-045-25114 30-045-25542 30-045-25542	Sec. 27, T-29N, R-11W Sec. 21, T-29N, R-11W Sec. 36, T-27N, R-6W Sec. 15, T-29N, R-11W Sec. 31, T-32N, R-12W Sec. 8, T-30N, R-10W Sec. 16, T-29N, R-11W	San Juan San Juan Rio Arriba San Juan San Juan San Juan San Juan	Dakota Dakota Fruitland Coal Dakota Dakota Mesa Verde Dakota	3/4/2002 3/4/2002 12/18/2001 9/24/2001 10/4/2001 10/1/2001 10/1/2001 9/26/2001
Culpepper Martin #1A Pierce A #4		Sec. 31, T-32N, R-12W Sec. 13, T-30N, R-10W		Dakota Mesa Verde	9/24/2001

Stogner, Michael

From: Sent: To: Subject:

• 2 I

Gilcrease Jim [JGilcrease@br-inc.com] Thursday, February 07, 2002 10:22 AM mstogner@state.nm.us NMOCD Well Determination Approvals



NMOCD Follow up 2-7-02.xls

Mike, attached is a revised list.

<<NMOCD Follow up 2-7-02.xls>>

WELL NAME

BR AIN NO. FERC 121 DATE API NO.

OPERATOR

Martin Federal Com #1E	1139402	12/12/2001 30-045-24324 Energen
Johnston A #16	1524501	12/18/2001 30-039-24739 BR
Baca Gas Com A #1	5377101	11/17/2001 30-045-26110 XTO
Mexico Federal N #1E	1210401	9/24/2001 30-045-08832 BR
Culpepper Martin #1E	1296401	10/4/2001 30-045-25114 BR
Kelly Knott #1A	1461201	10/1/2001 30-045-25542 BR
New Mexico B Com #1E	1312101	9/24/2001 30-045-2453 BR
Culpepper Martin #1A	1296201	9/26/2001 30-045-25112 BR
San Juan 29-5 Unit #218	653601	7/17/2001 30-039-24782 Phillips
Pierce A #4	5444901	9/24/2001 30-045-25432 BR
Gallegos Canyon Unit #323	2370501	8/29/2001 30-045-24615 Amoco
Gallegos Canyon Unit #323	2370502	8/29/2001 30-045-24615 Amoco
Gallegos Canyon Unit #506	5737002	8/29/2001 30-045-28067 Amoco
Pubco State Com #1A	458101	8/8/2001 30-045-27248 Great Western

Stogner, Michael

From: Sent: To: Subject: Gilcrease Jim [JGilcrease@br-inc.com] Thursday, February 07, 2002 10:06 AM mstogner@state.nm.us Well Determination Filings by NMOCD



NMOCD Follow up 2-7-02.xls

Good morning Mike, Burlington Resources' records indicate that we have not received JA approval on the following wells submitted to the NMOCD for review. We understand that you have other responsibilities and have put well determination filings on hold. However, lack of JA and FERC of these well may cause Burlington and other companies loss of monies. Could you review the wells on the attached list in which Burlington holds or has held an interest.

Thanks for your consideration.

Jim Gilcrease Burlington Resources (713) 624-9092 jgilcrease@br-inc.com

<<NMOCD Follow up 2-7-02.xls>>

WELL NAME

BR AIN NO. FERC 121 DATE API NO.

OPERATOR

Gallegos Canyon Unit #389	5588501	8/29/2001 30-045-28154 Amoco
Gallegos Canyon Unit #332	2372101	8/29/2001 30-045-25475 Amoco
Heaton Com LS #9A	2611902	8/29/2001 30-045-20903 Amoco
Martin Federal Com #1E	1139402	12/12/2001 30-045-24324 Energen
Johnston A #16	1524501	-12/18/2001 30-039-24739 BR
Baca Gas Com A #1	5377101	11/17/2001 30-045-26110 XTO
Mexico Federal N #1E	1210401	9/24/2001 30-045-08832 BR
Culpepper Martin #1E	1296401	10/4/2001 30-045-25114 BR
Kelly Knott #1A	1461201	10/1/2001 30-045-25542 BR
New Mexico B Com #1E	1312101	9/24/2001 30-045-2453 BR
Culpepper Martin #1A	1296201	9/26/2001 30-045-25112 BR
San Juan 29-5 Unit #218	653601	7/17/2001 30-039-24782 Phillips
Pierce A #4	5444901	9/24/2001 30-045-25432 BR
Gallegos Canyon Unit #323	2370501	8/29/2001 30-045-24615 Amoco
Gallegos Canyon Unit #323	2370502	8/29/2001 30-045-24615 Amoco
Gallegos Canyon Unit #506	5737002	8/29/2001 30-045-28067 Amoco
Pubco State Com #1A	458101	8/8/2001 30-045-27248 Great Western

PO Box 1980, Robbs, NM 88241-1980 Energy, Mir District II P.O. Drawer, DD. Artesia, NM 88211-0719					State of Ne nergy, Minerals, & Natur	Form C-10 Revised February 21, 199 Instructions on back Submit to Appropriate District Offic					
District III				OILC	ONSERVA PO Bo		ISION	5 Copie			
1000 Rio Brazos Rd District IV				S	anta Fe, NM		88			MMENT	DED REPORT
PO Box 2088, Santa I.	Fé, NM 87504-20) UEST F	OR AL					TO TRANS	PORT		
				ame and Add					² OGRID		
	ington 1 ox 4289	Resource	s Oil	& Gas				3	145 Reason for		le
	ington,	NM 8749	9						co - 7		
	API Nu	mber			' Pool	Name			° Pool		
	30-039-	24739		B	ASIN (FRUI	TLAND COA	L).		716	529	
	⁷ Property 0072					ty Name STON A			' Well ؟ # 1		
II. ¹⁰ Surfa	Ce Locati	ion Townsh	in R	ange	Lot.Idn	Feet from the	North/South	Line Feet from t	ne East/	West Line	County
A	36	02		006W	LOLINI	790	N	790		E	RIO ARRIBA
¹¹ Bottom	Hole Loo	ation			J						- Hundred H
UI or lot no.	Section	Townsh	ip R	ange	Lot.ldn	Feet from the	North/South	Line Feet from t	ne East/	West Line	County
¹² Lse Code	<u> </u>	1) Producing Mo	thod Code	14 Gas Co	nnection Date	¹⁵ C-129 Permit	Number	¹⁶ C-129 Effectiv	e Date	" C-129	Expiration Date
Lise Code				0							
III. Oil an	d Gas Tra	ansporter	s			L					
	nsporter FRID	19	Transporter and Addr		20 P	OD		²¹ O/G	23		STR Location scription
	057	P.O. BC						G	A-:	36-T02	7N-R006W
		EL PASC	, TX 79978	3							
IV. Produ	ced Wate	ег							RIDEOUSE		
		23 Pe	DD				24 PO	D ULSTR Location	and Desci	iption	
V. Well C		n Data									
²⁵ Spi	ud Date		26 Ready I	Date	27	TD		²⁸ PBTD		²⁹ Perí	forations
	¹⁰ Hole Size	_	31	Casing & Tu	bing Size		³² Depth Set	_		" Sacks Ce	ment
								·			
								;			
								<u>_</u>			
N/T 337-11	Test Date								-		
VI. Well ³⁴ Date New O	Test Data	³⁵ Gas Delive	ry Date	³⁶ Test I	Date	³⁷ Test Length		³⁸ Tbg. Pressure		¹⁹ Csg. P	ressure
								1			
⁴⁰ Choke Size		⁴¹ Oil		42 Water		*1 Gas		" AOF		* Test M	fethod
44 I hareby car	tify that the ru	les of the Oil (Conservatio	n Division ha	ve been complied			NSERVAT			N
	the information						OIL CC	MOERVAL		. v 1510	
	Haw L	ling				Approved by:	Frank	T. Chavez			
		S.						5		_	
Printed Name Dolores D						Title:		ict Supervise	or		
Title: Productio	n Associa	te				Approved Dat	e: July	11, 1996			
Date: 7/11/96				Phone (505)	326-9700						
47 If this is a c	hange of opera n Oil Production		OGRID nur	nber and nam	e of the previous o	perator					
P	revious Opera	tor Signature				Printed Name		Title		Dat	e
Signature:	almo l	log				Dolores Diaz		Production Assoc	ate	7/11	/96

•

Submit 5 Copies Appropriate District Office <u>DISTRICT 1</u> P.O. Box 1980, Hebbs,NM 88240	Energy, Minerals and	of New Mexico Natural Resources Department	Form C – 104 Revised 1 – 1 – 89 See Instructions at Bottom of Page
2°	OIL CONSER	IVATION DIVISION	OWISION
<u>DISTRICT II</u> P.O. Drawer DD, Artesia, NM 88210	P.C Santa Fe, New	D. Box 2088 Wexico 87504-2088 GIL CONSERV RE	STION DIVISION
DISTRICT II 1000 Rio Brazos Rd., Aztec, NM 87410		- 93 FEA	5 AM 9 14
BEC	QUEST FOR ALLOWABL	E AND AUTHORIZATIO	N
	TO TRANSPORT OIL A		
Operator MERIDIAN OIL, INC.			Vell API No. 30-039-24739
Address	ON, NEW MEXICO 87499-4289		
Reason(s) for Filing (Check proper bo) (x(Other (Please explain)	,
New Well	Change in Transporter of: Oil Dry Gas	0201	93
Change in Operator	Casinghead Gas Condensate	j <u>vav</u>	
f change of operator give name and address of previous operator	UNION OIL COMPANY OF CALIFORNIA	DBA UNOCAL, 3300 N. BUTLER SUITE 200, FA	RMINGTON, NEW MEXICO 87401
L DESCRIPTION OF	F WELL AND LEASE		
Lease Name	Well No. Pool Name, Incl		ease STATE Lease No.
JOHNSTON A	16 BA	ASIN FRUITLAND COAL State, Fede	ral a Fee E-291-35
Unit Letter A	: 790' Feet From The	NORTH Line and 790' Feet From	n TheLine
Section 36 Townsh	hip 27N Range 6V	W ,NMPM, RIO ARRI	BA County
II. DESIGNATION C	OF TRANSPORTER OF	OIL AND NATURAL (GAS
Name of Authorized transporter of Oil	or Condensate	Address (Give address to which	h approved copy of this form is to be sent
Name of Authorized Transporter of Casingle EL PASO NATURAL GA	Cad Gas Dry Gas Dry Gas	Aprid to ss Bio in a star and a star	hangeoney anis 87499 be sent
If well produces oil or liquids,	Unit Sec. Twp.	Rge. Is gas actually connected?	When?
give location of tanks.	om any other lease or pool, give commingling ord	der number:	
IV. COMPLETION D		3as Well New Well Workover Deepe	en Plug Back Same Res'v Diff Res
Designated Type of Completion - (X	9		
Date Spudded	Date Comp. Ready to Prod.	Total Depth	P.B.T.D.
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
Perforations			Depth Casing Shoe
	TUBING, CASING AI	ND CEMENTING RECO	RDS m m m m
HOLE SIZE	CASING & TUBING SIZE		
			N
			JAN 2 9 1993
	REQUEST FOR ALLO		OIL CON. DIV. DIST. 3
Date First New Oil Run To Tank	fter recovery of total volume ofload oil and must b Date of Test		p, gas, lift, ect.)
Length of Tast	Tubing Pressure	Casing Pressure	Choke Size
Lendin OF Lesi			
Length of Test	-	Water - Bbls.	Gas - MCF
Actual Prod. During Test	Oil – Bbs.	Water - Bbis.	Gas - MCF
Actual Prod. During Test	Oil – Bbls.		
Actual Prod. During Test GAS WELL Actual Prod. test- MCF/D	Oil – Bbls.	Bbls. Condensate/MMCF	Gravity of Condensate
Actual Prod. During Test	Oil – Bbls.		
Actual Prod. During Test GAS WELL Actual Prod. test- MCF/D Testing Method(picol, back pr.) VI.OPERATOR CER I hereby certify that the rules and regula	Oil - Bbls. Length of Test Tubing Pressure (Shut-in) TIFICATE OF COMPLIA	Bbls. Condensate/MMCF Casing Pressure (Shut-In)	Gravity of Condensate
Actual Prod. During Test GAS WELL Actual Prod. test- MCF/D Testing Method(picol, back pr.) VI.OPERATOR CER	Oil – Bbls. Length of Test Tubing Pressure (Shut-in) TIFICATE OF COMPLIA stions of the Oil Conservation hat the information given above	Bbls. Condensate/MMCF Casing Pressure (Shut-In) ANCE OIL CONSER	Gravity of Condensate
Actual Prod. During Test GAS WELL Actual Prod. test- MCF/D Testing Method(<i>picol, back pr.</i>) VI.OPERATOR CER I hereby certify that the rules and regula Division have been complied with and th	Oil – Bbls. Length of Test Tubing Pressure (Shut-in) TIFICATE OF COMPLIA stions of the Oil Conservation hat the information given above	Bbls. Condensate/MMCF Casing Pressure (Shut-In) ANCE OIL CONSER Date Aproved	Gravity of Condensate
Actual Prod. During Test GAS WELL Actual Prod. test- MCF/D Testing Method(pitol, back pr.) VI.OPERATOR CER I hereby certify that the rules and regula Division have been complied with and th is true and complete to the best of my kn	Oil – Bbls. Length of Test Tubing Pressure (Shut-in) TIFICATE OF COMPLIA Ations of the Oil Conservation that the information given above nowledge and belief.	Bbls. Condensate/MMCF Casing Pressure (Shut-In) ANCE OIL CONSER Date Aproved By 73.	Gravity of Condensate

INSTRUCTIONS: This form is to be filled in compliance with Rule 1104
 Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
 All sections of this form must be filled out for allowable on new and recompleted wells.
 Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
 Separate Form C – 104 must be filled for each pool in multiply completed wells.

	CONSIGNATION	DIVISION	
Hobbs CONSERVIED P.O. Box 1980RESE VED Hobbs, NM 88240 90 007 31 AM 8	SION Artesia P.O. Drawe ug rtesia, NM	r DD 88210	Aztec 1000 kio Brazos Aztec, NM 87410
NOTICE OF GAS WELL - (CONNECTION /	RECONNECTIO	N / DISCONNECTION
This is to notify the Oil (Conservation	Division of	the following:
	rst Delivery		
			Initial Potential
Reconnection Fi	rst Delivery		
		Date	Initial Potential
Disconnection			
for delivery of gas from th			
and delivery of gas from th	16	<u>Unocal</u> Operator	میں بین دور اور اور اور اور اور اور اور اور اور ا
		Johnston A	
		Lease	
92-660-01 03-306-01	#16	Α	36-27-06
Meter Code Site Code	Well No.	A 18 YO M TO A 19 YO A 1	S-T-R
		<u>Basin - Fruit</u>	land Coal
was made on <u>10-12-90</u> .		Poo	1
date			
AOF			
-			
Choke	<u> </u>	ASO NATURAL G Transpor	
OCD use only	EDWA	RD D. MARCUM/S	PECIALIST
County	Repr	esentative lease type	Name/Title
Land Type		Can 1	
		anta	Ler
Lig. Transporter	. Rej	presentativ	e Signature
Submit in duplicate to the	appropriate d	district of	TICONE DIL CON. DIL
•		•	Dis.

bmit 5 Copies ppropriate District Office <u>STRICT 1</u> O. Box 1980, Hobbs, NM 88240			ural Resources Department		Form C-104 Revised 1-1-89 See Instructions at Bottom of Page		
ISTRICT II O. Drawer DD, Antesia, NM 88210		P.O. Bo	JA 2000	CONSERVE ON D RECEIVED	IVISION		
STRICT III			exico 87504-2088		0 00		
OU Rio Brazos Rd., Aztec, NM 87410	REQUEST F	OR ALLOWAB	BLE AND AUTHOR	The Contract of the second sec	9 08		
perator				Well API No.			
Union Oil Company o	<u>f California</u>	L		30-039-2473	<u> </u>		
P. O. Box 671 - Mid	land, TX 797	/02					
eason(s) for Filing (Check proper box)	Change is	a Transporter of:	Other (Please explain)				
ecompletion	oil 🗌	Dry Gas	w/deviation	ted for record reports.	purposes		
hange in Operator	Casinghead Gas	Condensate					
d address of previous operator							
DESCRIPTION OF WELL A		Pool Name, Includi	ing Formation	Kind of Lease	Lease No.		
Johnston A	16		uitland Coal	State, Federal or Fee			
Deation			700		aat ti		
Unit Letter	:790	_ Feet From The	north Line and 790	Feet From The e	astUne		
Section 36 Township	27N	Range 6W	, NMPM, F	lio Arriba	County		
I. DESIGNATION OF TRANS	SPORTER OF (IL AND NATU	RAL GAS				
ame of Authorized Transporter of Oil	or Conde		Address (Give address to whic	h approved copy of this fo	rm is to be sent)		
No condensate	head Gue	or Dry Gas	Address (Give address to whic	h approved copy of this fo	rm is to be sent)		
El Paso			P. O. Box 4990	- Farmington,	NM 87499		
well produces oil or liquids, ve location of tanks.	Unit Sec.	Twp. Rge.	No	When? Negotia	ting contract		
this production is commingled with that f V. COMPLETION DATA			ling order number:	Deepen Piug Back	Same Res'v Diff Res'v		
Designate Type of Completion	- (X)	X	x				
Date Spudded	Date Compl. Ready		Total Depth	P.B.T.D. 3269	1		
7-30-90 levations (DF, RKB, RT, GR, etc.)	8-15-90 Name of Producing		3273 ' Top Oil/Cas Pay	Tubing Dept	h		
6598' GR	Fruitla		3129'	3149 Depth Casin			
criorations				3273			
3129'-3217'	TUBINO	G, CASING AND	D CEMENTING RECORD)			
HOLE SIZE		TUBING SIZE	DEPTH SET		SACKS CEMENT		
<u>12 1/4"</u> 7 7/8"	8 5/1		<u>363'</u> 3273'		603		
1 1/0							
V. TEST DATA AND REQUE	2 3	<u>/8"</u>	3149'				
OIL WELL (Test must be after t	recovery of total volu	ne of load oil and mu	ust be equal to or exceed top allo	wable for this depth or be	for full 24 hours.)		
Date First New Oil Run To Tank	Date of Test		Production Manada of pu	VE TI			
*	Tubing Pressure		Casing Pressure	bke Size			
Length of Test			Casin Assaure SEP1 0	bke Size			
Length of Test	Tubing Pressure Oil - Bbls.		Casin Assure SEP1 0 Water - Bbla	1990 Gas- MCF			
Length of Test Actual Prod. During Test			Casin Ausure SEP1 () Water - Bbla OIL CON	1990 Gas- MCF			
			Casin Assure SEP1 0 Water - Bbla	Gas-MCF	Condensate		
Actual Prod. During Test GAS WELL Actual Prod. Test - MCF/D 323	Oil - Bbls. Length of Test 24 hr		Casin Aussure SEP1 () Water - Bbis OIL CON DIST. Bbis. Condensate/MMCF 0	Gas-MCF	Condensate		
Length of Test Actual Prod. During Test GAS WELL Actual Prod. Test - MCF/D 323 Testing Method (pitor, back pr.)	Oil - Bbls.		Casin Assure SEP1 () Water - Bbla OIL CON DIST. Bbls. Condensate/MMCF	1990 Gas- MCF 3 Gravity of	Condensate		
Length of Test Actual Prod. During Test GAS WELL Actual Prod. Test - MCF/D 323 Testing Method (pitor, back pr.) Back pr.	Oil - Bbls. Length of Test 24 hr: Tubing Pressure (\$ 430	Shut-in)	Casin Assure SEP1 () Water - Bbla OIL CON DIST. Bbls. Condensate/MIMCF 0 Casing Pressure (Shut-in) 430	Gas-MCF . DIV. Gas-MCF . Cravity of Choke Size	Condensate 		
Length of Test Actual Prod. During Test GAS WELL Actual Prod. Test - MCF/D 323 Testing Method (pilol, back pr.) Back pr. VI. OPERATOR CERTIFIC I hereby certify that the rules and regy Division have been complied with and	Oil - Bbls. Length of Test 24 hr: Tubing Pressure (S 430 CATE OF CON ulations of the Oil Con d that the information	Shut-in) MPLIANCE nservation given above	Casin Assure SEP1 0 Water - Bbla OIL CON DIST. Bbls. Condensate/MMCF 0 Casing Pressure (Shut-in) 430 OIL CON	Gas-MCF Gas-MCF Gas-MCF Gravity of Choke Size	Condensate 48/64" DIVISION		
Length of Test Actual Prod. During Test GAS WELL Actual Prod. Test - MCF/D 323 Testing Method (pitot, back pr.) Back pr. VI. OPERATOR CERTIFIC I hereby certify that the rules and regu Division have been complied with and is true and complete to the best of my	Oil - Bbls. Length of Test 24 hr: Tubing Pressure (S 430 CATE OF CON ulations of the Oil Con d that the information	Shut-in) MPLIANCE nservation given above	Casin Assure SEP1 () Water - Bbla OIL CON DIST. Bbls. Condensate/MIMCF 0 Casing Pressure (Shut-in) 430	Gas-MCF Gas-MCF Gas-MCF Gravity of Choke Size	Condensate 		
Length of Test Actual Prod. During Test GAS WELL Actual Prod. Test - MCF/D 323 Testing Method (pitot, back pr.) Back pr. VI. OPERATOR CERTIFIC I hereby certify that the rules and regy Division have been complied with and	Oil - Bbls. Length of Test 24 hr: Tubing Pressure (S 430 CATE OF CON ulations of the Oil Con d that the information	Shut-in) MPLIANCE nservation given above	Casin Assure SEP1 0 Water - Bbla OIL CON DIST. Bbls. Condensate/MIMCF 0 Casing Pressure (Shut-in) 430 OIL CON Date Approve	Gas-MCF Gas-MCF Gas-MCF Gravity of Choke Size	Condensate 48/64" DIVISION		
Length of Test Actual Prod. During Test GAS WELL Actual Prod. Test - MCF/D 323 Testing Method (pitot, back pr.) Back pr. VI. OPERATOR CERTIFIC 1 hereby certify that the rules and regu Division have been complied with and is true and complete to the best of my Charlotte	Oil - Bbls. Length of Test 24 hr: Tubing Pressure (S 430 CATE OF CON ulations of the Oil Cod d that the information y knowledge and belie BLUSON	Shut-in) MPLIANCE nservation given above of.	Casin Assure SEP1 0 Water - Bbla OIL CON DIST. Bbls. Condensate/MMCF 0 Casing Pressure (Shut-in) 430 OIL CON Date Approve By	BODIV. BODIV. Gas-MCF BODIV. Gas-MCF Cravity of Choke Size NSERVATION SEP 1 MARKE Size Cravity of Choke Size And Cravity of Choke Size Choke Size C	Condensate 48/64" DIVISION 0 1990		
Length of Test Actual Prod. During Test GAS WELL Actual Prod. Test - MCF/D 323 Testing Method (pitot, back pr.) Back pr. VI. OPERATOR CERTIFIC I hereby certify that the rules and regy Division have been complied with and is true and complete to the best of my Warlotte	Oil - Bbls. Length of Test 24 hr: Tubing Pressure (S 430 CATE OF CON ulations of the Oil Cod d that the information y knowledge and belie BLUSON	Shut-in) MPLIANCE nservation given above of.	Casin Assure SEP1 0 Water - Bbla OIL CON DIST. Bbls. Condensate/MMCF 0 Casing Pressure (Shut-in) 430 OIL CON Date Approve By	Gas-MCF Gas-MCF Gas-MCF Gravity of Choke Size	Condensate 48/64" DIVISION 0 1990		

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.

2) All sections of this form must be filled out for allowable on new and recompleted wells.

3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.

OIL -	RE .: JED)				/	/				
Submit to Appropriate District Office. State Lease-6 ochoic Fos Lease-5 ochoic			State of New	w Mexic al Reso	xo urces Depr						C-105
		OIL CONS					W	ELL APL NO.	•		
P.O. Box 1980, Hobbs,	NM 88240		P.O. Box	2088	DIVIS			30-039	-24739		
DISTRICT II. P.O. Drawer DD, Artes	A. NM 88210	Santa Fe	New Mer	tico 87	504-2088	F	5	. Indicate-Typ			
DISTRICT III						1		State Oil &		TEX	FEE
1000 Rio Brazos Rd., A					0.1300				GIE LEISE N	D.	
WELL C	COMPLETION C	OR RECOMPLE	TION RE	PORT	AND LOG		V		///////	IIII	
L Type of Well: OIL WELL			OTHER	4 1973,			7	. Less Name	or Unit Agr	Name at Na	1228-
NEW WORK OVER		FLUG BACK		H				Johnst	ion A		
Name of Operator -				-			8	Well No.			
Union O: Address of Operator	il Company o	<u>f Californi</u>	a					16			
		1					9	Pool name o			
Well Location	ox 671 - Mid	Land, TX 79	/02	_				Basin	Fruitla	and Co	al
Unit Letter	<u>A</u> : <u>790</u>	Feet From The	north		Line and	a <u>790</u>		Feet Fr	om The 🦲	ast	Line
Section	36	Towaship 2	7N	Range	6W		NM	M Rio A	rriba		County
	11. Date-T.D. Reache	d~ 12. Date Co	mpt. (Ready I	Prod.):	13.1	Lovations	(D78	REB; RT. GI	Lac.	A Flore (
7-30-90	8-2-90		8-15-90			6598					
Total Depth 3273 '	16. Phig Back 8269		17. If Multiple Many Zoe	Compt. 1	low	18. Intervi Driller	Lis	Rotary Tool		Cable Tod	ala.
Producing Interval(s) 3129-3217	, of this completice - Fruitland	Top, Bottom, Name					_		1. Was Direc No	tional Sur	vey Made
L Type Electric and Ot								22. Was We			
FDC HRL M	LT CBL GR	CCL		2					No		
		CASING R	ECORD	Report	t all striv	105 Set	in w	eil)			
CASING SIZE	WEIGHT LB	<u>/FT. DEPI</u>	H SET	HO	LE SIZE			ENTING RI	CORD	AM	OUNT PULLED
8 5/8"	20#	363			12 1/4"	C	L "T	3" 300	SXS		
<u>4 1/2"</u>	11.6#	3273	<u>. </u>		7 7/8"				sxs (1		
						C			SXS (2	nd sta	age)
						- D	V 6	2834'			
		LINER RECO	RD				5.	ттл	BING REC	NRD	
SIZE	TOP	BOTTOM	SACKS CE	MENT	SCREE			SIZE	DEPTH		PACKER SET
							2	2 3/8"	3149'		
Perforation new	ard (interval, size,	and mumber)					-				
31.29-34'	3136-46', 31	5]_55' 31s	8_62'	i	DEPTU	<u>ID, SHC</u> NTERVA	11, F	ALGO	CEMEN	T, SQU	EEZE, ETC. RIAL USED
3173-85' &	3209-17'/45	PF/200 hole	s ,			3217'					B gel w/
							-	240,00	0# 20/4	0 sd v	v/1,037,000
								SCF N			
le First Production		motorion Mathed /	PRODU	CTIO	N						
	n	roduction Method (F F	lowing	n, pumpun	g - Size and	уре рынр)			⊭ <i>(Prod.)</i> t−in	or Shue-in)
te of Test	Hours Tested	Choke Size	Prod'a Fo		й - ВЫ.	Gas	- MC	F W	ater - BbL		Gas - Oil Ratio
8-23-90	24	48/64"	Test Perio		0		323		3	-	-
W Tubing Press	Casing Pressure	Calculated 24- Hour Rate	Oil - Bbl.		Gas - MC	F	Wate	ar - BbL	Oil Grav	ty - API -	(Corr.)
105 Disposition of Gas (S	155		1							-	
Vented dur:	ing testing								Caine		
. I hereby certify that	t the information sh	own on both sides	of this form	is true a	nd comples	e to the b	es 0	f my knowled	ige and beli	đ	
	rlotte B		Printed		te Bee			Drla.	Clerk		9–6–90
Sugnature (ACC	mue -		Name				Title			Date	

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Description Sector 100, lacken ANS 18200 P.O. BACK 2088 DETEXTIT On Annue, NM 18210 Sama P.O. BACK 2088 DETEXTIT On Annue, NM 18210 Sama P.O. BACK 2088 DITION (LITT) ALG 2 4 1990 (DO NOT USE THIS FORM FOR FORDERVAIL USE AND REPORTS (LITT) Gall & G		Form C-103 Revised 1-1-5	/	ico ources Department	f New Mex Natural Res	917151016tate of gy, Minerals and M	SERVE EN	OIL CON	mit 3 Copies optioprists net Offics
YOU SET PO. Box 208 20 mmm 10, Amea, NM 1820 Image: State in the image:			WELL AD NO	N DIVISION	VATIO	LGORSER	. 01		
3. Down of Development Substantial and the state of the					Box 2088	P.O.	P 4 m	·90 St	
Allie 2 4 1990 4 Sum C & Educ Less No. SUNDRY NOTICES AND REPORTE CAMERING AND REPORTE CAMERING AND REPORT OF MALE SALVARY AND REPORT AND RE	FEE	e of Lesse		VE	ttr	Santa DY E	210	rtesis, NM 88	Drewer DD, A
DO NOI USE INS HORM FOR PROPOSALS TO DEPLOYNO BETWEEN RULL BACK TO A DFFERENT RESERVAR. USE "APPLICATION BY PERFERENT" 7. Lesse Name or Usit Agreement Name (PORM C-101) FOR SUCH PROPOSALS) Type of Walk Control FOR SUCH PROPOSALS) 7. Lesse Name or Usit Agreement Name (PORM C-101) FOR SUCH PROPOSALS) Type of Walk Control Company of California 16 Neme of Openator 9. Pod Bace 16 Usit Later A .790 Fee From The TOTTh Lise and 790 Fee From The Coll Usit Later A .790 Fee From The TOTTh Lise and 790 Fee From The Coll Usit Later A .790 Fee From The TOTTh Lise and 790 Fee From The Coll Usit Later A .790 Fee From The TOTTh Lise and 790 Fee From The Coll Usit Later A .790 Fee From The TOTTh Lise and 790 Fee From The Coll NOTICE COF INTENTION TO: SUBSEQUENT REPORT OF: SUBSEQUENT REPORT OF: PLUG AND ABANDON NERGENARE Y ABANDON CHANGE PLANE COMMENCE DRULING OPENS- PLUG AND ABANDON LO RALTER CASHING CHANGE PLANE COMPARENCE DRULING OPENS- PLUG AND ABANDON LO RALTER CASHING CHANGE PLANE COMPARENCE DRULING OPENS- PLUG AND ABAN			6. State Oil & Ga	990	UG2 4 1	UU A	87410	d., Aziec, NM	
DO NOI USE INS HOW FOR PROPOSALS TO DELLOW DEFERMENT 7. Less Name of Use Agreement Name DIFFERENT RESERVAR. USE APPLICATION SPECIFICATION 7. Less Name of Use Agreement Name Type of Wall Gamma Johnston A Name of Openator 16 16 P. O. BOCK 671 - Midland, TX 79702 9. Pod Bame of Wides Basin Fruitland Coal Well Less 36 Townster 270 Well Less 790 Fee From The NOTTH Less and 790 Fee From The 2825 Sector 36 Townster 271 Range 6W NMPM Rio Arriba Well Lesson 36 Townster 271 Range 6W NMPM Rio Arriba Well Lesson 36 Townster 271 Range 6W NMPM Rio Arriba NOTICE CF INTENTION TO: SUBSEQUENT REPORT OF: SUBSEQUENT REPORT OF: SUBSEQUENT REPORT OF: PLUG AND ABANDON REMEDIAL WORK ALTENNG CASING LO RALTER CASING CHANGE PLANS COMMENCE CRILLING CONS. PLUG AND ABANDON REMEDIAL WORK ALTENNG CASING LO RALTER CASING Charly made all pertunent datasi, advating enimeted data of saming any propendial workl				SDIV	ON-WEEL	AND REPORTS	NOTICES	SUNDRY	
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Thereby certify that the information above is true and complete to the best of my knowledge and belief. SIGNATURE		78" BIT, BIT SUB & T DV TOOL 2836- IRM TO HARD CMT O CSG TO 1500#, OK. TTY LOG DTD 8-3-90. PERF'D BASIN TREE FOR BHP	C. RIH W/3-7/8" 56'. DRLD OUT D 204'. DRLD FIRM M. PRESS TSTD C D W/FORM DENSITY 2250'. POH. P HOLES). NU TR	DP & CSG TO 1500#, OK CMT FROM 2726' TO 283 TBG. TAGGED CMT @ 32 269' ETD. CIRC CLEAN 3268-30'. CORRELATED . SWBD FLVL DOWN TO 129-3217' (TOTAL 200	P. TSTD BO FT TO MED (TS 2-3/8" 1 CMT 3228-33 OG WL-ETD 3 RIH W/TBG	5. ND TREE, NU BO 9 2726'. DRLD SO 7, OK. RIH W/12 J 5228'. DRLD HARD (RAN CBL-GR-CCL L(2" ANN ABOVE 40'.	VICE RIG #6 TAGGED CMT CSG TO 1500# UT FC 3227-3 ILLED W/FW. 5/8" X 4-1/3	ULE 1103. TEC WELL SER PRESS TSTD PRESS TSTD TELL. SDON. G & BIT. F IT TOP IN 8- ID COAL IN 4 SDON.	Work) SEE R MIRU AZI 2838'. 3204-322 SECURE W POH W/TE FOUND CM FRUITLAN 2 SURVEY.
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API #30-039-24739 Field - Basin Fruitland Coal Lease - Johnston A Well No. 246

ND TREE NU TREE SAVER. HOWCO FOAM FRAC'D FRUITLAND COAL PERFS 3129-3217' DN 4-1/2" CSG W/24,000 GAL 30# XLB GEL 8/3 W/240,000# 20-40 SD W/1,037,000 SCF N2 @ 27,500-16,800 SCF/MIN. FL RATE 12.1-22.5 BPM, DOWNHOLE FOAM RATE 56-37 BPM @ 2490-3060-2200 PSI. ISIP 1190 PSI (5) 1050 (10) 1020 (15) 1010 (30) 990. TLTR 613 BBLS. OPENED TO FLW ON 8/64" CHK AFTER 6 HRS SI. 6 HR SICP 800 PSI. FLWD FLUSH H20 THEN N2 W/HEADS OF H20, THEN HEAVY MIST W/1/2" STRM H20, FCP-800-1475-1250 PSI. TR 120 BLW OF 613 BTL.

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CONT'D FLWG TO PIT ON 16/64" CHK. FCP 480-120 PSI. INSTALLED ADJUSTABLE CHK & GRADUALLY OPENED FROM 20/64" TO 48/64" 5 FLWD GAS W/HEAVY MIST. FCP 120-25 PSI. KILLED WELL W/20 BFW. ND TREE SAVER. RIH W/GUIBERSON 2-3/8" HYDROSTATIC TBG BAILER ON 2-3/8" TBG. TAGGED SD @ 3169'. CLEANED OUT TO PBTD 3269'. R&L 100 JTS 2-3/8 4.70# J-55 8RD EUE PROD TBG W/NOTCHED CLR & SN ON BTM (3137.74') LANDED AT 3149'. ND BOP NU TREE. WELL KICKED OFF W/1 SWAB RUN. FLWD TO PIT 4 HRS. FCP 0-100 PSI. TURNED THRU TEST SEP @ 7:00 PM 8-15-90. CP 115-100 PSI, FTP 18 PSI, SEP PRESS 17 PSI. RECV'D 5 BW IN 10 HRS. GAS RATE 195 MCFPD, 48/64" CHK, TEMP 50°. TR 196 BLW OF 613 BTL.

RD MO AZTEC WELL SERVICE RIG 65. FLWD THRU TEST SEP 24 HRS, CP-100 PSI, FTP-15-30 PSI, SEP PRESS 17-28 PSI. FLWD 3 BW IN 24 HRS, GAS RATE 189 MCFPD, TEMP 55°, 48/64" CHK. TR 199 BLW OF 614 BTL.

- 8/17 FLWD 214 MCF + 2 BW/24 HRS THRU 48/64" CHK W/28-40# FTP, 25-37# SEP PRESS & 100# CP @ 50°F. TR 201 OF 601 BLW.
- 8/18 FLWD 234 MCF + 3 BW/24 HRS THRU 48/64" CHK W/64# FTP, 125-100# CP, & 58# SEP PRESS @ 61*F. TR 204 OF 601 BLW.
- 8/19 FLWD 24 HRS THRU TEST SEP. CP-120-150 PSI, FTP 65-105 PSI. SEP PRESS 55-100 PSI. REC'D 3 BW IN 24 HRS, GAS RATE (24 HR AVG) 265 NCFPD, TEMP 53-75°, 48/64" CHK. TR 207 NBLW OF 601 BTL.

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State of New Mexico Approximit 3 Content Approximit 2 Content Approximit 2 Content Approximit 2 Content Approximit 3 Content A	Form C-103 Revised 1-1-89		
I Bon ST HOT 20 SEAM 10 UL CONSERVATION DIVISION P.O. Box 2088 STRICT II	WELL APT NO. 30-039-24739		
Santa Fe, New Mexico 87504-2088 D. Drawer DD, Artesia, NM 88210	5. Indicate Type of Lease		
STRICT III 30 Rio Brazos R4., Aziec, NM 87410	6. State Oil & Gas Lesse No.		
SUNDRY NOTICES AND REPORTS ON WELLS DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	7. Lease Name or Unit Agreement Name		
Type of Well: Of CAS WELL WELL X OTHER	Johnston A		
Name of Operator	8. Well No.		
Union Oil Company of California	16		
Address of Operator	9. Pool name or Wildest		
P. O. Box 671 - Midland, TX 79702 Well Location	Basin Fruitland Coal		
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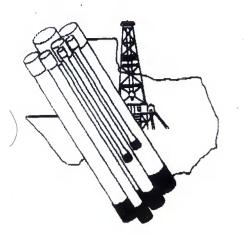
FIN RUN SCH. CH LOGB: PDC/HRL 3271-340*, HLT 3292-2200* & COAL LOG 3271-2950*. RIH. NO FILL. LOOP. A&C 79 JTS + 1 PC (3260*) 4-1/2* CD, 11.64 BRD J55 & K35, LTC & STC, HEV EN CSC W/PS & 3273*, T/PC & 3227* & T/OV TOOL & 2034*. CHTD STA #1 W/125 SX CL *N* * 38 KCL * .183 THRIFTYLITE * 38/8K HI SCAL + 1.22 CF-14 HIXED & 19.9 PPG, PRECEDED CHT W/30 BW. DISP PLUE TO FC & 3227 W/50 BBLS HUD & S.C APH & 200-350 PS1. BUNPED PLUD W/1800 PS1 & 5:50 PH 8-3-90. REL PR/HO BACKFLOW. DEOPPED OP BONS & OP DV TOOL W/800 PS1. CIRC 6 HRS. CIRC 25 SK CHT TO GURF. CHTD STA #2 W/428 SX A5/35/5 * 1/2 PT₃/SK PERLITE * SM/SK HI SCAL * .08% CF-1 * 2% CACL2 HIXED & 12.6 PPG F/B 50 SX "8* WHAT HIXED & 15.6 PPG. PRECEDED CHT W/10 BW. DISP PLUG TO DV TOOL & 2836* & 5 TAACE CHT TO GURF. HO BOP. SET BLIPS & CUT OFF 4-1/2* CSG. REL RIG # 2:30 AN 8-4-90.

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	Charlotte Bosson	ma Drilling Clerk	
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DNATURE Bobby Bryan Drilling Superintendent DATE 5715/90 THE OR FRENT NAME Bobby Bryan TELEPHONE NO.	(Pipe manufacturer specifications attached)			
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HIS FRACE (OF STEELURE) SUBJECT IN AN 1 7 1990	THE	DATE		
THOVED BY TITLE DATE MAY 1 7 1990	This stores for State Line)			
DINDITIONS OF AFFROVAL & ANY:	SUBERVISOR I	DISTRICT DATE MAY 1 7 1990		

713 466 9775 P.02

90 M.Y - 2 LAND. LT



TUBULAR PRODUCTS OF TEXAS, INC. P. O. BOX 79285, 4511 BRITTMORE RD. 54-MANUTAL AND MEXIC HOUSTON, TEXAS 77279 (713) 937-3900 • FAX 713-466-9775

May 2, 1990

Unocal Fax No. 915-682-2740

Attn: Mr. Pat Ryan

Ref.: Minimum Performance Properties 8 5/8" x 20# X-42 ST&C R-3

Dear Pat:

Please find attached calculations for the referenced material. All calculations are based on the American Petroleum Institute Bulletin 503 dated February 1985.

Burst, Collapse, and Pipe Body Yield are based on the minimum yield point for grade X-42 (42,000 psi), and for the joint strength calculation I used 60,000 psi minimum tensile. (Since this is a line pipe grade, there are no tensile values, therefore I used the value for H-40)

Please call should you need any additional information or have any questions.

Sincerely,

Messell 7

Russell Bass Vice President of Sales

P.S. As you can see, the actual values for yield and tensile on the Mill Cert. are much higher than the minimum values used for these calculations.

May 2, 1990 Page 2

Unocal Att: Pat Ryan

1)	Burat	$.875 \left[\frac{2(42,000)}{8,625} , 219 \right]$
		- 1866 psi
2)	Collapse	$= 42,000 \left[\underbrace{(2,047)}_{(39,383)}03125 \right]$
		= 870 psi
3)	Pipe Body Yield	2
		= $42,000 \times .7854 (8.625^2 - 8.187^2)$ $42,000 \times .7854 (74.39 - 67.03)$
		- 242,782 lbs.
4)	Joint Strength	7854 [(8 625 - 1425) ² - 8,187 ²]
		$ \begin{array}{c} \cdot .7854 \left[(8.6251425)^2 - 8.187^2 \right] \\7854 \left(.71.95 \right) & - 67.03 \end{array} $
		3.86 .95 (3.86) 60,000
		= 220,020 lbs.

O1 '90 16:24 ' Tex-Tube	Certificate				C	
Sold to: TUBULAR PROD P.O. BOX 792 HOUSTON	DUCTS OF TEXAS		ip to:	R PRODUCT	04,	/30/90
Sales Dist. Customer 881 11383 Chemical A	4/27/9	0 WILI Me	call Call			Order)5-01
ERW API LN PIPE X42		Strength	Tensile Strength	T Weld	Elong. % in 2	" RB
8 5/8" O.D. X .219" Heat No. C98416	WL DRL		19.6 6	00 #/Ft.	Part-	-11053
L C23 MN68 NI018 CR047 SI01 AL041 C C22 MN62 NI014 CR042 SI010 AL043	CU06 MO011 V000 NB000 P013 S008 CU045 MO007	\$5,000	65,000	65,500	42	77
Heat No. C98629 L C21 MN64 NI014 CR040 SI02 AL040 C C19 MN58 NI010 CR037 SI016 AL037	P013 S006 CU01 MO011 V000 NB000 P012 S007 CU011 MO006		68,100	71,500	37	77
Heat No. C98773 L C20 MN64 NI012 CR028 SI02 AL042 C C21 MN61 NI011 CR029 SI013 AL046	CU01 MO011 V000 NB000 P013 S008 CU010 MO007	54 ,900	63 ,300	67,300	43	78
Heat No. 2K39530 L C 19 MN69 NI=.03 CR04 SI239 AL037 C C20 MN62 NI014 CR030	CU014 MO007 V002 NB000 P015 S006 CU012 MO- 010	57,400	66,800	69,200	42	79
SI~.20 AL041 (C C19 MN70) NI016 CR044 (V004 NB000 P021 S006	55,400	64,900	70,000	39	79

	35/02/1990 39:25	7 730T	/		
 . MP	AY 01 '90 16:25 TEX-TU	BE	Tests 177505- 0		2/2
	-Tube Division · Cyclops		0x 7705 . Houston		688-435
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old to	TUBULAR PRODUCTS P.O. BOX 79285 HOUSTON	OF TEXAS 890 TX 77279	Ship to: 74 TUBULA HOUSTO	r products of T N TX	exas
ales D 881	Dist. Customer Ord 11383	ler Date S 4/27/90	hipping Instruc WILL CALL	tions 17750	Order 5-01
	Chemical Analy	77	Mechanical eld Tensile ength Strength	Properties T Weld Elong. Strength % in 2	" RB
5/8" C C - NI-	LN PIPE X42 BAI O.D. X .219" WL 19 MN69 P 016 CR044 CU- 25 AL033 V -	DRL 022 9006 5 013 MO010		Part- 00 #/Ft. 70,500 42	11053 79
		test sample. Ial meets astm	A-53-B AND API	LATTENING TEST 5L-B SPEC.	ok.
This a	material manufactu	ared in Houston	, Texas, 3/90,		

37Th Edition, of API spec. 5L

Hydro. Test 1,600 psi

The above analyses and tensile . properties are correct to the

sign Orwan L. shine

Submit to Appropriate District Office State Lease - 5 copies Foe Lease - 5 copies	C I L Martin	State of New Mex Minerals and Natural Re	sources Department		Form C-101 Revised 1-1-89
DISTRICT I P.O. Box 7990 Horse, NM DISTRICT II P.O. Drawer DD, Artesia, 1	688248 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	CONSERVATIO P.O. Box 208 Santa Fe, New Mexico	0	API NO. (assigned by OCI <u>30-039</u> 5. Indicate Type of Lease ST	
DISTRICT III 1000 Rio Brazos Rd., Azter				6. State Oil & Gas Lease	
	ION FOR PERMIT	TO DRILL, DEEPEN, O	R PLUG BACK		
1a. Type of Work: DRILL b. Type of Well: OIL GAS		SINGLE		7. Lease Name or Unit Ag	reennent ivanne
WELL WELL	OTHER	ZONE	ZONE	Johnston A	
2. Name of Operator				8. Well No.	250)
	Company of Ca	alifornia		9. Pool name or Wildow	2201
3. Address of Operator				,	
	074, Farming	ton, N.M. 8740	<u> </u>	Basin Fruit	Lano Coal
4. Well Location Unit Letter <u>A</u>	: <u>790</u> Feet F	rom The North	Line and 790	Feet From The	East Line
Section 36	Town	thip 27 N Ran		MPM Rio Arrit	
		10. Proposed Depth			12. Rotary or C.T.
		3228'		uitland Coal	
13. Elevations (Show whether	er DF, RT, GR, etc.)	4. Kind & Status Plug. Bond	15. Drilling Contractor		Date Work will start
6598'GR		Current N.W.	Arapahoe		ng, 1990
17.	PP	OPOSED CASING AN	D CEMENT PROGR		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	8 5/8"	24.0#	2251	175 sacks	surface
7 7/8"	4 1/2"	10.5 <u>#</u>	T. D. 3.228'	410 sacks	surface

PROPOSED DRILLING PROGRAM

MIRU. Drill 12-1/4" hole with spud mud to 225'. Survey. Rig up and run casing and cement. WOC @ 18 hours. NUBOP, choke, and kill line (2000#) and test same plus casing. Drill out with 7-7/8" hole from 225' to T.D. with fresh water mud. Run surveys @ 500' intervals or first bit trip succeeding 500'. At T.D. log with DISEL GR SP, FDC, CNL-GR. Run and cement casing. RDMOL.

APPRO	VAL EX	PIRES	11-	3-90
UNLES	S DRILL	ING IS	COMM	ENCED.
SPUD P	NOTICE	MUST	DE SU	BMITTED

IN ABOVE SPACE DESCRIBE PROPOSED PROSNAMINE PROVIDE ZONEL GIVE BLOWOUT PREVENTED TROGRAM, IF ANY.		CHONNE Z PROPOSED NEW PRODUCTIVE
I hereby certify that the information above is true and complete to the best of my know	viedge and belief. ππ.aAgent	DATE 4726/90
TYPE OR FRINT NAME CHRIS RUSSEII		TELEPHONE NO. 325-8784
(This space for State Use) APPROVED BY Time Barch	DEPUTY OIL & GAS INSPEC	5-3-90 TOR, DIST. # MAY 0 3 1990

MAY 0 2 1990

CONDITIONS OF AFFROVAL, IF ANY:

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

All Dista	Lease	the second se			Well No.
UNION OIL CO. OF CALIFO		JOHNS	STON A	Contraction	16
Jnit Letter A 36 T.27	Kange	R.6 W.	NMP	RIO AR	RIBA COUNTY
Actual Footage Location of Well: 790 feet from the NORTH	line and	790	feet from	m the EAST	
Ground level Elev. Producing Formation	Pool			COAL	Dedicated Acreage: 320 Acres
6598 FRUITIAND C	OAL	BASIN FRUI	t below.		
1. Outline the acreage dedicated to the subject well	by colored pencil or r			ting interest and t	rovalty).
2. If more than one lease is dedicated to the well, o	outline each and identif	y the ownership thereof	(bout as to wor		- veitigation
3. If more than one lease of different ownership is	dedicated to the well, I	have the interest of all o	where peen con	solidated by com	
unitization, force-pooling, etc.?	· · · · · · · · · · · · · · · · · · ·	molidation			
Yes No If and If answer is "no" list the owners and tract description	ices which have actual	y been consolidated. (C		ing formed poolin	a or otherwise)
this form if neccessary	interests have been con	solidated (by communit by the Division.			
or until a non-standard unit, eliminating such mer			077 761		OR CERTIFICATION
	N 88-46		277.36'	I hereby	certify that the information in in true and complete to the
		1062	29.	best of my brow	ledge and bolief.
			2629.44	Signature	X
DECEIVE		1/ 04	7		Nusll
				Printed Name	RUSSEL
MAY 02 1990	+	<u> </u>		Position	Fusse
OIL CON. DIV.		i/	ш,	HGEN	<u>T</u>
OIL CON. DIT		X	Ť	Company	n
Uto1. 3			8	Dette	
					.90
SEC.	36 /	X.		SURVE	YOR CERTIFICATION
				I hereby certi	fy that the well location shown
				actual survey	was plotted from field notes of s made by me or under my
		X		minamizon a	nd that the same is true and e best of my knowledge and
				belief.	
	1 /			Date Surveyed	1
	$\perp \perp \perp \perp \perp \perp$			APR	WATP DA 390
		X		Signature of S Professional S	HAL ON THE XICOLE
i i			/	R. HOV	ARD DAOGETT
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		/i /		Certificate N	
	<u>K / </u>	/ //			POFESSIONAL 96-19
		1500 1000	500 0		Land Surveyor
0 330 660 990 1320 1650 1980 2310 2	2640 2000	1000			

05/02/55

05/02/55

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PF01 HELP

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Date: 11/20/2002 Time: 06:23:41 PM

CMD : OG5SECT	ONGARD INQUIRE LAND B Rng : 06W Section	11/20/02 18:17:04 OGOMES -TPOX PAGE NO: 2	
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A		A	
PF01 HELP PF02	PF03 EXIT PH	F04 GoTo PF05	PF06
PF07 BKWD PF08 FWI		F10 SDIV PF11	PF12

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CMD : OG6IWCM	ONGARD INQUIRE WELL COMPLETIONS	11/20/02 18:17:23 OGOMES -TPOX
Pool Idn OGRID Idn	: 30 39 24739 Eff Date : 10-01-1990 W : 71629 BASIN FRUITLAND COAL (GAS) : 14538 BURLINGTON RESOURCES OIL & GAS CC : 7200 JOHNSTON A	
Well No GL Elevatior		East/West Prop/Act(P/A)
Lot Identifi Dedicated Ac Lease Type	: A 36 27N 06W FTG 790 F N F ler: cre: 320.00	TG 790 F E P
E631	7: No more recs. for this api well no.	

PF01 HELP	PF02		PF04 GoTo PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC PF11 HISTORY	PF12 NXTREC

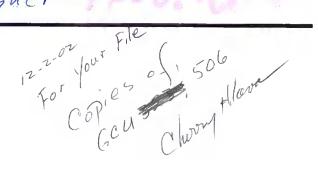
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CMD : OG6ACRE		ONGA C102-DEDIC			11/20/02 18:17:28 OGOMES -TPOX Page No : 1
		4739 Eff Da		991	
		SIN FRUITLAND	COAL (GAS)		
	: 7200 J				Well No : 016
					ous Dedication:
		6W Acreage	: 320.00	Revised C	102? (Y/N) :
Dedicated La	and:				
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		O 36 27N	06W 40.00	N	ST
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E0005	5: Enter data	to modify or	PF keys to	scroll	
PF01 HELP					PF06 CONFIRM
PF07 BKWD	PF08 FWD	PF09	PF10 LAND	PF11 NXT	SEC PF12 RECONF

ATTN: M. Stogner

Hlava, Cherry L

From: Sent: To: Subject: Corley, Mary L Monday, December 02, 2002 8:10 AM Hlava, Cherry L FW: NGPA Well Determinations





FERC Form-121.pdf

Please complete F-121 for your wells listed below.

Mary Corley Senior Regulatory Analyst San Juan Performance Unit 281-366-4491

-----Original Message-----From: Stogner, Michael [mailto:MSTOGNER@state.nm.us] Sent: Monday, November 25, 2002 2:27 PM To: Marilyn Rand (E-mail); Marilyn Rand (FERC-DC) (E-mail); Corley, Mary L Subject: NGPA Well Determinations

November 25, 2002

Re: Applications for NGPA Section 107 well category determinations: (i) Bunce Com. Well No. 1 (API No. 30-045-24431) filed September 19, 2001 for tight formation gas, approved by the Division on November 18, 2002 as TF-02-004; (ii) Gallegos Canyon Unit Well No. 506 (API No. 30-045-28067) filed September 19, 2001 for tight formation gas, approved by the Division on November 18, 2002 as TF-02-005; (iii) Heaton Gas Com. "LS" Well No. 9-A (API No. 30-045-24988) filed September 19, 2001 for occluded coal seam gas, approved by the Division on November 19, 2002 as CS-02-002; (iv) Heaton Gas Com. "LS" Well No. 9-A (API No. 30-045-24988) filed September 19, 2001 for tight formation gas, approved by the Division on November 19, 2002 as TF-02-006; and (v) Gallegos Canyon Unit Well No. 323 (API No. 30-045-24615) filed on September 19, 2001 for occluded coal seam gas, approved by the Division on November 20, 2002 as CS-02-003.

Ms. Corley,

The five above-described NGPA well determination filings were recently processed by the Division and subsequently submitted to the FERC for final review. I however just realized that these applications did not contain the required FERC Form-121 (see attachment). I suggest you complete and submit them to Ms. Marilyn Rand with the FERC in Washington directly (see address below). Please provide me a xeric copy so that my copy of these applications will also be complete. I apologize for this inconvenience.

I am also sending you a hard copy of this e-mail in case there is a problem in its transmission.

Office of the Secretary Federal Energy Regulatory Commission Attention: Marilyn Rand 888 First Street, N.E. Washington, DC 20426 FERC Form-121 (1/2000) Federal Energy Regulatory Commission Washington D.C. Form Approved OMB No. 1902-0038 (Expires 9/30/03)

APPLICATION FOR DETERMINATION

GENERAL INSTRUCTIONS

1. Purpose: This form is to be used to provide basic data on each application for a well category determination that is filed with a Jurisdictional Agency to qualify the natural gas produced from such well as (a) occluded natural gas produced from coal seams, under section 107(c)(3) of the Natural Gas Policy Act of 1978 [15 U.S.C. 3301] (NGPA), (b) natural gas produced from Devonian shale, under section 107(c)(4) of the NGPA, or (c) natural gas produced from a designated tight formation, under section 107(c)(5) of the NGPA, in order to substantiate the eligibility of such natural gas for a tax credit under Section 29 of the Internal Revenue Code. The Commission will use this data, together with the other information contained in the Jurisdictional Agency's notice of determination, to evaluate whether substantial evidence exists to support the determination.

2. Who must submit: Anyone who files an application with a Jurisdictional Agency identified under Section 270.401 of the Commission's Regulations for a well category determination.

3. What and where to submit: The original of this form, and all of the information required by Section 270.302, 270.303, 270.304, or 270.306 of the Commission's Regulations must be filed with the Jurisdictional Agency. The Jurisdictional Agency making a determination must file the original of this form, with all of the other information required under the applicable Commission Regulations, with the Office of the Secretary, Federal Energy Regulatory Commission, 888 First Street, N.E., Washington, D.C. 20426. Applicants should retain one copy of each completed form for their files for 4 years.

4. These are mandatory filing requirements.

5. The data on this form are not considered confidential and will not be treated as such.

6. Where to send comments on the public reporting burden: The public reporting burden for this collection of information is estimated to average 0.25 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate, or any aspect of this collection of information, including suggestions for reducing this burden, to the Federal Energy Regulatory Commission, 888 First Street, N.E., Washington, D.C. 20426 (Attention: Mr. Michael Miller, CI-1) and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503 (Attention: Desk Officer for the Federal Energy Regulatory Commission). Persons subject to providing this information will not be penalized for failing to respond to these collections of information unless the collection of information displays a valid OMB control number.

Five NGPA determinations without Form 121s...

Stogner, Michael

TF-02-005

From: Marc Poole [Marc.Poole@ferc.gov]

Sent: Tuesday, December 10, 2002 7:38 AM

To: mstogner@state.nm.us

Subject: Five NGPA determinations without Form 121s...

Some time ago, we received 19 filings from your office, including the five filings listed below:

Well Res	servoir Category
(1) Gallegos Canyon Unit #3	823 Fruitland Coal A1 coal seam gas
(2) Heaton Gas Com LS #94	A Fruitland Coal A1 coal seam gas
(3) Heaton Gas Com LS #94	A Mesaverde A3 tight formation gas
(4) Bunce Com #1	Mesaverde A3 tight formation gas

(5) Gallegos Canyon Unit #506 Pictured Cliffs A3 tight formation gas

However, none of them have the required Form 121. In view of this, we did not assign FERC JD numbers to them; so, they have not (as yet) been officially received and docketed.

Recently, we received a copy of your letter to Amoco Production Company notifying Amoco that you cannot approve their Gallegos Canyon Unit #323 tight formation gas application because the well is not located within the designated tight formation area. There is a hand-written note (on your letter to Amoco) dated 12/02/02, and signed by a Ms. Cherry Hlava. Ms. Hlava requests the withdrawal of the GCU #323 tight formation gas application. Also attached are four Form 121s, for the two wells listed below:

Well	Reservoi	r <u>Catego</u>	ry		
Gallegos Canyon Uni	#506 I	Pictured Cliffs	A3 tight fo	rmation gas	2 copies
Gallegos Canyon Uni	t#323 I	ruitland Coa	A1 coals	eam gas2 c	copies

Thus, at this point in time, we have received the required Form 121s for filings (1) and (5) above, but we are still missing the Form 121s for filings (2), (3), and (4) above. In view of this, we will consider filings (1) and (5) above to be officially received and assign an FERC JD number to each. However, for filings (2), (3), and (4) above, we will not assign FERC JD numbers to them and they will not be considered to be officially received until we receive the required Form 121s for those three filings. If you have any questions, please call me at (202) 502-8482.

Marc F. Poole



December 19, 2001

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DEC 2 6 2001

Mr. Michael Stogner State of New Mexico Energy and Minerals Department Oil Conservation Division 2040 Pacheco Street Santa Fe, NM 87505

Re: Application for Well Determination NGPA Section 107 Johnston A #16 Sec. 36, T-27N, R-6W Rio Arriba Co., NM

Dear Mr. Stogner:

Burlington Resources Oil & Gas Company has located additional logs relative to the above referenced Fruitland Coal well determination filing previously submitted to the New Mexico Oil Conservation Division. We trust that this log will be instrumental in making a positive coal seam determination.

Should you have further questions please contact me at 713-624-9086.

Sincerely,

OK Male

David K. Miller Manager, Royalty Compliance/Litigation

enclosures

xc: NGPA File