Location of Well: M292708 Page 1

DIST. 3

### OIL CONSERVATION DIVISION NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator: AMOCO PRODUCTION COMPANY Lease/Well #:BOLACK C LS 013
Meter #:74671 RTU:1-048-07 County:SAN JUAN

Met	er #:74671	RTU	:1-048-07	C	County:SAN JUA	Ŋ
	NAME RESE	RVOIR OR POOL		TYPE PROD	METHOD PROD	MEDIUM PROD
PR	BOLACK C L	5 013 SBPC 746	70	GAS	FLOW	TBG
OMP WR	BOLACK C L	S 013 BMV 746	/-47-7 71	GAS	FLOW	TBG
OMP	•		MK			
	*	:		PRESSURE DA	<del>7</del> ,	· · · · · · · · · · · · · · · · · · ·
	Hour/Date	Shut-In Ler	gth of Tim	e Shut-In	SI Press. PS	SIG Stabilzed
PR OMP	9//9/93		72 HRS	;	198	755
WR OMP	9/22/93	*	B		223	NO
<del>-</del>	l		FLOW TEST	DATE NO.1		I . <del></del>
omme	nced at (ho	ur,date)*	*		Zone Prod	ducing (Upr/Lwr
(ho	TIME ur, date)	LAPSED TIME SINCE*	Upper	RESSURE Lower	Prod Temp.	REMARKS
<del></del>	9/22/93	Day 1	198	223	78	Both Zones SI
	9/23/93	Day 2	198	234	80	Both Zones SI
	9/24/93	Day 3	199	242	79	Both Zones SI
	9/25-193	Day 4	198	231	77	
<b>.</b>	9/26/93	Day 5	198	221	80	•
18	9/27/93	Day 6	198	220	8/.	4-
Produ Dil: Gas:	iction rate	during test BOPD base MFC	d on 2/2 PD:Tested	BBLs in <b>7</b> theu (Orifi	Hrs 57 ce or Meter):	GravGOR _
, 4 ;	<del></del>	MID-	TEST SHUT-	IN PRESSURE	DATA 🛊 👎	
JPR COMP	Hour, Date	e SI Length	of Time SI	SI Press	. PSIG   Stab	ilized (yes/no)
LWR COMP				_		0CT 21, 1993
		I(C	ontinue on	reverse si	(05)	L COM. DIV.

FLOW TEST NO. 2

Commenced at mour, 64	10)			Zone preducing (Upper or Lower):				
TIME	LAPSED TIME	PAES	SURE	PROD. ZONE				
(hour, date)	SINCE ##	Upper Completion	Lower Completion	TEMP.	REMARKS			
			1		*			
<del></del>	<del></del>							
<del></del>	<u> </u>	İ						
-								
	<del> </del>							
<del></del>	<del></del>	<u> </u>	<u> </u>	1				
Production rate d	uring test							
Oil·	BOP	D based on	Rhle in	Uana	Grav GOR			
Gas:		MCF	PD: Tested thru	(Orifice or Meter	);			
Cemarks:		<del></del>	·					
hereby certify th	nat the informati	on herein contain	ed is true and co	mplete to the bes	t of my knowledge.			
Approved	OCT 2 1 1	993						
	OCT 2 1 1	993						
Approved New Mexico Oi	OCT 2 1 1 il Conservation D	993 Division	19 C	Operator July	Amoco Production Con san Woods			
Approved New Mexico Oi	OCT 2 1 1 il Conservation D	993	19 C	Operator July				
Approved New Mexico Oi	OCT 2 1 1	993 Division	19 C B T	operator Julius	Amoco Production Con san Woods			

#### NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

- A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
- 2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- 3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to the lack of a pipeline connection the flow period shall be three hours.
- Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.
- 6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except

- that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow-period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the cooclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.
- 24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least rwice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas rone.
- 8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

Location of Well: M292708 Page 1

#### OIL CONSERVATION DIVISION NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator: AMOCO PRODUCTION COMPANY Lease/Well #:BOLACK C LS 013

	ter #:74670	PRODUCTION COI	J:1-047-07		County:SAN J	
1	NAME RESE	ERVOIR OR POOL		TYPE PROD	METHOD PRO	D MEDIUM PROD
UPR COMP	BOLACK C I	LS 013 SBPC 740	570 1-47-1	GAS	FLOW	TBG
LWR COMP	BOLACK C I	LS 013 BMV 740	571 1-48-7	GAS	FLOW	TBG
	. I	PRE-FLO	NI-TUH2 WC	PRESSURE DA	TA	I
	Hour/Date	e Shut-In Lei	ngth of Tim	e Shut-In	SI Press.	PSIG Stabilzed
UPR COMP	05/26/95	7:00 pm	72 He	,S	178	
LWR COMP	05/26/95	nion ram	12 Hes	,	271	y
	.			DATE NO.1		
Comme	nced at (ho	our,date)*			Zone Pr	oducing (Upf/Lwr)
(ho	TIME our, date)	LAPSED TIME SINCE*	PR Upper	ESSURE Lower	Prod Temp.	REMARKS
0	5/26/95	Day 1	141	268		Both Zones SI
0	5/27/95	Day 2	171	292		Both Zones SI
0	5/38/95	Day 3	176	244		Both Zones SI
0	5/ลา/95	Day 4	118	271		TLOW LOWER ZONE
0	5/30/95	Day 5	128	266		11 11 11
0	15/31/95	Day 6	198	267		,, u u
Oil:_	ction rate	MFC	PD:Tested t	BBLs in	ce or Meter)	GravGOR :METER
UPR COMP	Hour, Date	e SI Length	of Time SI	SI Press.		EGETWEEN
LWR COMP	-					JUN - 7 1885
S	O. LARG	0-50 BEGI	ontinue on	reverse sid	ie)   Oli	<u>l (600), deta</u> Eist s

FLOW TEST NO. 2

Corr vid at frour, da	1 (e)			Zone producing (Upper or Lewer):				
TIME frour, detail	LAPSED TIME	PAZI Vocer Completion	EURE Lewer Completion	PROD. ZONE TEMP,	REMARKS			
		abber constrained		iner.				
-		<u></u>						
<u> </u>	<del> </del>	·	<del> </del>					
Branch of the second								
				İ				
-	<del> </del>							
<b></b>								
Production rate o	lurina rare			-1				
: iixabedon izie e	iming test			•				
Oil:	BOI	PD based on	Bbls. i	n Hours	Grav GOR			
Gas:		мс	PD: Tested thru	(Orifice or Mere	r):			
Remarks:		<del></del>						
					_			
_				omplete to the be	st of my knowledge.			
Approved	Johnny Roles	neen	19	Operator	Amoco Production Company			
New Mexico C	i Conservation	1 1		•	Dheni Bradshaw &			
	JUN 0 7 1	995		Ву	Mill Congoverno			
Ву	L			Title	Field Tech			
ByDE	PUTY OIL & GAS II	NSPECTOR		Date				
Tide				Date	/ w/ w			

#### NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

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- 2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
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24-hour oil zone testi: all pressures, throughout the entire test, shall be contanuous measured and recorded with recording pressure gauges the securacy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.

8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Astree District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leskage Test Form Revised 10-01-78 with all dead-weight pressures indicated thereon as well as the flowing temperatures (gas sones only) and gravity and GOR (oil sones only).

M-29-27-8

STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

Location of Well: M292708 Page 1

### OIL CONSERVATION DIVISION NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

	tor: AMOCO ter #:74671		COMI RTU		/Well #:BC		K C LS			
<u></u>	NAME RESE	RVOIR OR I	POOL		TYPE PROD	ME	THOD PR	ROD MI	MEDIUM PROD	
UPR COMP	BOLACK C I	S 013 SBPC	746	70 160-2	GAS		FLOW	TBG		
LWR COMP	BOLACK C I	S 013 BMV	746	71 1603	GAS		FLOW		TBG	
	1	PRE	E-FLOV	N SHUT-IN P	RESSURE DA	ATA			t	
	Hour/Date	Shut-In	Leng	gth of Time	Shut-In	SI	Press.	PSIG	Stabilzed	
UPR COMP	09/12/96			72 HRS	<u> </u>		195		Α	
LWR COMP	09/12/96			72 Hes	•	269			У	
<u></u>	.1		· · · · · · · · · · · · · · · · · · ·	FLOW TEST	DATE NO.1	I			-	
Comme	nced at (ho	our,date)*		· · · · · · · · · · · · · · · · · · ·			Zone I	Produci	ng (Upr/Lwr)	
(ho	TIME LAPSED TIME (hour, date) SINCE*			PRESSURE Upper Lower			Prod Temp.	R	EMARKS	
0	9/12/96	Day 1		13 2	212		Both Zon		h Zones SI	
0	9/13/96	Day 2	2	128	294	Both		h Zones SI		
0	9/14/96	Day	3	195	297			Bot	h Zones SI	
0	9/15/96	Day 4	<u> </u>	195	269		-	From	ower Zone	
0	9/16/96	Day 5	5	195	267			.,	v 11	
0	9/17/96	Day 6	5	195	264			ш	e( , (	
Produ Oil:_ Gas:	ction rate	BOPD B	pased MFCP	on BD:Tested th	eu (Orific	ce d	or Meter	Granning Granning Granning Granning Granning Granning Granning Granning Granning Granning Granning Granning Gra	v GOR R	
UPR COMP	Hour, Date	SI Leng	gth o	f Time SI	SI Press	. PS	SIG St	EC.	ed (yes/no)	
COMP								M car	30 P	
ے قان	Becary		(Co:	ntinue on r	everse si	de)		DIDI	N. DIY.	

FLOW TEST NO. 2

Commenced at thour, dat	a) * *		Zone producing (Upper or Lowert:				
TIME	LAPSED TIME	PRES	SURE	PROD. ZONE			
fhour, detel	SINCE **	Upper Completion	Lower Completion	TEMP.	REMARKS		
			***************************************	<del></del>			
		,					
		***************************************					
Production total			<del>l </del>	·1	1		
Production rate di	<del>-</del>			_			
Oil:	BOP	D based on	Bbls, in	Hours.	Grav GOR		
G25:		MCF	PD: Tested thru	(Orifice or Meter)	):		
Remarks:					2		
		_					
	· · · · · · · · · · · · · · · · · · ·			<del></del>			
I hereby certify th	at the information	on herein contain	ed is some and an		t of my knowledge.		
, <u>-</u> ,	U . U	ou nerein concern	cd is true and co	inflicte to the bes	t of my knowledge.		
Approved	- Agraph PAR	Asset	_19	perator	Amoco Production Company		
New Mexico Oi	I Constitution To eputy Oil & Ga	Sivision as Inspector	· _		sh ° Q II		
L	eputy on a or		E	у	Meni Bradshaw		
Ву	SEP 2	3 1996	Т	itleF	Field Tech 9/23/96		
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Tide		<del></del>	r	)ate			

#### NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

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14-hour oil zone tesus: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.

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District I PO Box 1980, Hobbs, NM 88241-1980

District II 811 South First, Artesia, NM 88210

District III 1000 RioBrazos Rd., Aztec, NM 87410

State of New Mexico Engery, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-104 Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

AMENDED REPORT

District IV 2040 South Pachec											
<u>I.</u>		<sup>1</sup> Ope	rator name s	and Address	<u>.</u>		UTHORIZ	ZATIO	ON TO TR	<sup>2</sup> OGRID Nu	ımber
		OSS TIME		ERATING	COMPA	NY		-		167067 Reason for Fi	ling Code
i.		01 Highway rmington, N		1						nge of Ope	rator 1 <del>2/1/97</del> 1/1/98
4 AP	I Number						Pool Name 6 Pool Code TURED CUES 72439				
	045-06200	)		S BL.	ANCO PIC				<del> </del>	9	Well Number
	erty Code			BOLA	ACK C LS	roperty 1	name	<u>-</u>			13
II. 10 Su	rface Lo	cation			T			<del>. 1.</del>	7 (6 4)	East/West lir	ne County
Ul or lot no.	Section 29	Township 27N	Range 08W	Lot.Idn	Feet from	n the	North/South L S	ine I	Feet from the 800	W East West III	SJ
M		<u> </u>		<u> </u>							
UL or lot no.	Section H	Township	Range	Lot.Idn	Feet from	n the	North/South L	ine 1	Feet from the	East/West lin	
12 Lse Code	13 Producii	ng Method Cod	e 14 Ga	as Connection	Date 15	C-129	Permit Number	16	C-129 Effective	Date 17	C-129 Expiration Date
III. Oil aı	nd Gas T	ransporte	rs		· _ · · ·						
18 Transporte OGRID			ransporter N and Addres			20	POD	21 O/	G 22	POD ULST and Des	
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IV. Prod		iter				24 1	OD ULSTR Loc	cation as	d Description		SOLD EVEL
	POD						OD CLSTR LA	cation a	id Description		CON. DIV Dist. 3
V. Well	Comple	tion Data									काणाः क
<sup>25</sup> Spu		<sup>26</sup> Ready D	ate	<sup>27</sup> TD			<sup>28</sup> PBTD		<sup>29</sup> Perfora	tion	30 DHC,DC,MC
31 Hole Siz	e		32 Casin	g and Tubing S	Size	<u> </u>	33 Dept	h Set	34	Sacks	Cement
						,					
				<del> </del>						·	
VI. Well	Test Da	ta									
35 Date N	ew Oil	36 Gas Deliv	very Date	<sup>37</sup> Test	Date	3	Test Length		39 Tbg. Pre	ssure	40 Csg. Pressure
41 Choke	Size	<sup>42</sup> Oii	1	43 Wa	ater		44 Gas		45 AC	)F	46 Test Method
47 I hereby cert with and that knowledge ar Signature:	the informatio	es of the Oil Con given above is t	servation Divi	sion have been c	omplied my		OIL		NSERVAT	ION DIV	ISIO
	Marker O. Millians 185									<u> </u>	
Printed Name		O. Vennerb		$\overline{}$		Tit		Super	visor District	*3	
Title:		President-L	<del></del>	(FOE) 605	E200	Ap	proval Date:				
	December		Phone:	(505) 632-		<u> </u>			P ::	. Co	0000 # 000770
48 If this is a	Xhi	erator fill in the	gger	mber and nam	Gail Je	fferson			oco Production	e Staff Ass	
	Pre	vious Operator Si	gnature		Printed	i Name			Title		Date

District I PO Box 1980, Hobbs, NM 88241-1980

District II 811 South First, Artesia, NM 88210

District III

State of New Mexico Engery, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco

Form C-104 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office 5 Copies

1000 RioBrazos I	Rd., Aztec, NM	87410		2	Santa Fe	e, NM	L 87505				AMENI	DED REPOR	
District IV 2040 South Pache	co, Santa Fe, N	M 87505								السا	THAICIA	DLD KLI OK	
I.	I	EQUES'	T FOR A	LLOWA	BLE A	ND A	UTHORIZA	TION T	O TRA	ANSPO	ORT		
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4 A	PI Number				5	Pool Na	ame				6 Pool C		
	-045-06200	)		BLAN	ICO MES						723		
<sup>7</sup> Pro	perty Code			POL A	* Ph ACK C LS	roperty l	Name				Well No.	umber	
II. 10 Su	ırface Lo	cation	<u>-</u>	BOLA	ICK C LS					<u> </u>			
Ul or lot no.	Section	Township	Range	Lot.Idn	Feet from	n the	North/South Line	Feet from	the E	East/West I	line	County	
М	29	27N	08W		960		S	800	İ	w		sJ	
<sup>11</sup> B	ottom Ho	ole Locati	ion										
UL or lot no.	Section	Township	Range	Lot.Idn	Feet from	the	North/South Line	Feet from	the H	ast/West 1	line	County	
				ļ	<u></u>								
12 Lse Code F	13 Producin	g Method Cod	le 14 Gas	s Connection I	Date 15	C-129 F	Permit Number	<sup>16</sup> C-129 Eff	ective Da	te 1º	<sup>7</sup> C-129 I	Expiration Date	
	L Coo T							<u> </u>					
III. Oil a		<u>-</u>	ransporter Na	ma		20	POD 21	O/G	22	POD ULS	TD I and		
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23	POD					24 PO	D ULSTR Location	and Descript	ion	Cut	<u>නව</u> ද	M. DI	
V. Well	Completi	on Dota									DUE	II. B	
25 Spuc		26 Ready Da	ate	<sup>27</sup> TD		γ	<sup>28</sup> PBTD	29 0	erforation	Т	30 Di	HC,DC,MC	
Space	· Date	Ready De		10			TOID	·······································	er ioi atioi	1	ים	нс,рс,мс	
31 Hole Size		·	32 Casing a	and Tubing Siz	ze	1	33 Depth Set		34	Sacks	Cement		
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41 Choke S	ize	<sup>42</sup> Oil		43 Water	т		44 Gas	4	3 AOF		46 T.	st Method	
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17 I hereby certif	y that the rules	of the Oil Conse	rvation Division	n have been com	plied	<del> </del>							
with and that the knowledge and	e information g	iven above is tru	e and complete	tothe best of my	,		OIL CO	)NSERV	ATIO	N DIV	ISIO		
Signature:	JMV	U. Vv	unnu	(AS		Аррго	ved by: Fran	k T. Chave	z				
Printed Name: Vaughn O. Vennerberg, II							Sun	ervisor Disti	rict #3	<del>-</del>		<del></del>	
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P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco Santa Fe, New Mexico 875054-6429

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

APPROVAL PROCESS:

Administrative \_\_\_Hearing

EXISTING WELLBORE

# 811 S. First St., Artesia, NM 88210-2835

DISTRICT III

DISTRICT II

1000 Rio Brazos Rd, Aztec, NM 87410-1693

APPLICATION FOR DOWNHOLE COMMINGLING

X\_YES \_\_\_NO 2700 Farmington Ave. Bldg. K. Ste 1 Farmington, NM 87401

Cross Timbers Operating Compo	any 2700 F	armington Ave Bidg. K. S	te 1 Farmington, NM 87401
Bolack C LS	#13 M	29 27N 08W	San Juan, NM
OGRID NO. <u>167067</u> Property Cod	Well No. Unit Ltr Sc de 022596 API NO. 3004		County Unit Lease Types: (check 1 or more) (, State, (and/or) Fee
The following facts are submitted in support of downhole commingling:	Upper Zane	intermodiale Zone	Lower Zone
Pool Name and     Pool Code	S. Blanco Pictured Cliff 72430		Blanco Mesaverde 72319
Top and Bottom of Pay Section (Perforations)	2378'-2388' (perf'd) 2394'-2420' (perf'd)		4630'-4762' (perf'd)
Type of production     (Oll or Gas)	Gas		Gas
Method of Production     (Flowing or Artificial Lift)	Flowing		. Flowing
Bottomhole Pressure     Oil Zones - Artificial Lift:	a (Current)  134 psia (calc)  b (Original)	a.	a 404 psia (calc)
All Gas Zones: Estimated Or Measured Original	685 psia (calc)	121 MAR - 3 1999	1125 psia (calc)
6. Oil Gravity ( <sup>o</sup> API) or Gas BTU Content)	1191	OIL COM. DIV	o 1317
7. Producing or Shut-In?	Producing	চাগে. গ্র	Producing
Production Marginal? (yes or no)	Yes		Yes
If Shut-in, give date and oil/gas/ water rates of last production  Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: Rates:	Date: Rates:	Date: Rates:
* If Producing, give date and oil/gas/ water rates of recent test	Date: 02/09/99 Rates:	Date:	Date: 02/09/99 Rates:
(within 60 days)	60 mcfd 0 bwpd 0 bopd		23 mcfd 0 bwpd 0 bopd
Fixed Percentage Allocation     Formula -% for each zone	Oil: Gas: % 56	Oil: % Gas: %	Oil: Gas: 744 %
If allocation formula is based submit attachments with supp	upon something other than currecting data and/or explaining r	rent or past production, or is b method and providing rate proje	ased upon some other method, ections or other required data.
10. Are all working, overriding, and re		mingled zones? ed by certified mail?	_X_YesNo YesNo _X_YesNo
11. Will cross-flow occur? flowed production be recovered,			not be damaged, will any cross- No (If No, attach explanation)
12. Are all produced fluids from all co			res No
<ul><li>13. Will the value of production be de</li><li>14. If this well in on, or communitized</li></ul>			
United States Bureau of Land Ma	magement has been notified in wri	ting of this application. X Yes	No
15. NMOCD Reference Cases for Ru	le 303(D) Exceptions: ORD	DER NO(S)	
* Production curve for e	to be commingled showing its spa each zone for at least one year. (It duction history, estimated product tion method or formula. offset operators. rking, overriding, and royalty intere ents, data, or documents required	f not available, attach explanation. tion rates and supporting data.	
I hereby certify that the information a			
SIGNATURE	TERRIT W PATION	TITLE	DATE 2-18-99
TYPE OR PRINT NAME	JEFFERT W PATION	TELEPHONE NO. (	505 ) 324-1090

### FEW MEXICO OIL CONSERVATION COMM

Well Location and Acreage Dedication 1

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Is the Operator the only owner in the de-	dicated acre	age outline	d on th	e plat i	pelow?				
Yes_XNo			<b>6</b> . 11 :	1	,				
If the answer to question one is "no" agreement or otherwise? Yes									ımunıtız
If the answer to question two is "no",	list all the	owners and	l their					- <del>-</del>	
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(Operator)	<b>\$</b>				. 🌣	· <del></del> -	_ <del></del>		
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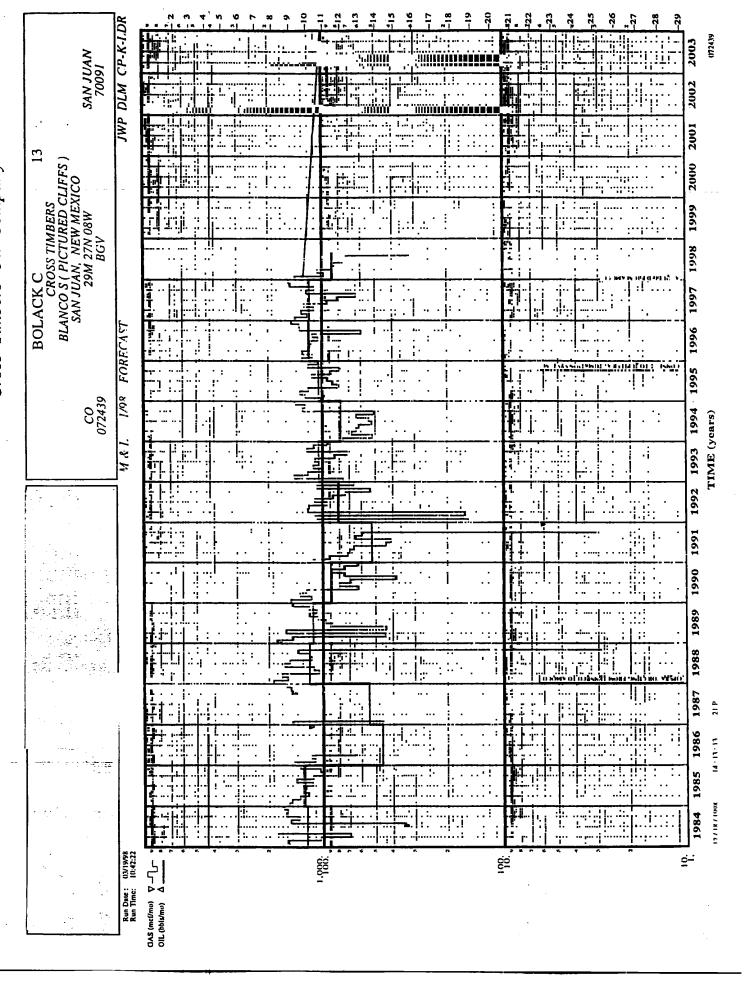
This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

(Seal)

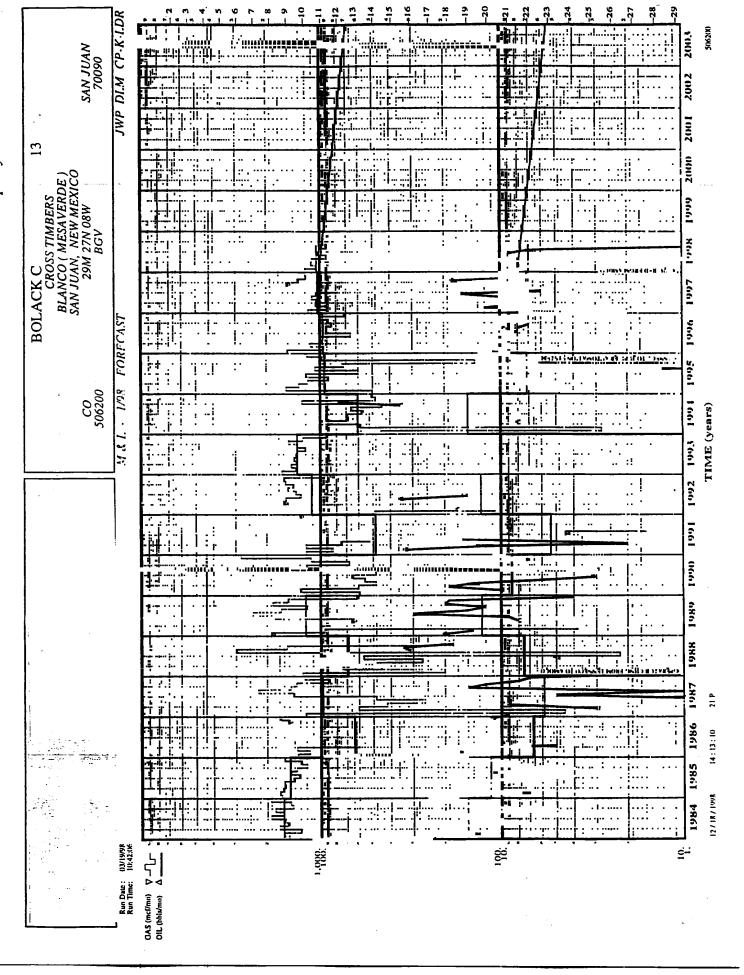
Farmington, New Mexico

nty Syrveyed NOVEMBER 20, 1957

Registered Professional Engineer and or Land Surveyor



Cross Timbers Oil Company



Re:

Administrative Approval to Downhole Commingle

Cross Timbers Operating Co.

Bolack "C" LS #13

960' FSL & 800' FWL Sec. 29, T27N, R08W

San Juan County, New Mexico

Dear Offset Operator,

As an offset operator to the above mentioned well, you are hereby notified that Cross Timbers Operating Co is filing for downhole commingle approval.

As an offset operator, you have the right to file an objection to the commingling of the above mentioned well within twenty (20) days starting upon receipt of this letter. If you do not have any objections to the above well being commingled, you can either sign this letter waiving your rights to an objection or let the twenty days, upon receipt of this letter, expire.

Please return this letter or a letter of objection to Mr. David Catanach at the address listed.

Mr. David Catanach New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Cross Timbers Oil Co sincerely appreciate your prompt response concerning this approval.

Burlington Resources Oil & Gas	Signature:
Greystone Energy	Signature:
Roddy Production.	Signature:

Form 316 5 (November 1994)

## UNITED STATES DEPARTMENT OF THE INTERIOR

# Budget Bureau No. 1004-0135

FORM APPROVED

			Expires Nov	ember 30, 2000
BUREAU OF L	AND MANAGEMENT	- OF 1/FT	5. Lease Serial No.	
SUNDRY NOTICES	AND REPORTS ON WELLS	PERE LA	SF 079232	
Do not use this form for t	proposals to drill or to re-enter an		6. If Indian, Allottee	or Tribe Name
	13160-3 (A⊕D) for such proposals.	23 P1112	53	
L	Other instructions on reverse side  MAR - 3 1999	1000	7, If Unit or CA/Agr	eement, Name and/or No.
1. Type of Well Oil X Gas Other  2. Name of Operator	OUL COM, DAY		8. Well Name and No BIOSCR C LS	#13
Cross Timbers Operating Company	Diet. 3		9. API Well No.	
3a. Address	3b. Phone No. (include an	rea code)	3004506200	
2700 Farmington Ave., Bldg. K. Ste	1 Farmington, NM 87401		10. Field and Pool, o	or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Descrip			S Blanco Pictu Blanco Mesaver	
960' FSL & 800' FWL Sec 29, T27N	. R08W		11. County or Parish	, State
			Sna Juan	NM
12. CHECK APPROPRI	ATE BOX(ES) TO INDICATE NATURE OF	NOTICE, REPORT,	OR OTHER DATA	
TYPE OF SUBMISSION	7	TYPE OF ACTION		
X Notice of Intent	Acidize Deepen	Production	(Start/Resume)	Water Shut-Off
Subsequent Report	Alter Casing Fracture Treat  Casing Repair New Construction	Reclamation Recomplet		Well Integrity Other DHC
Final Abandonment Notice	Change Plans Plug and Abando	n Temporari	ly Abandon	
	Convert to Injection Plug Back	Water Disp	posal	
13. Describe Proposed or Commpleted Operation (clear If the proposal is to deepen directionally or recomp Attach the Bond under which the work will be per following completion of the involved operations. If testing has been completed. Final Abandonment No determined that the final site is ready for final inspection	lete horizontally, give subsurface locations and me formed or provide the Bond No. on file with BL the operation results in a multiple completion or otices shall be filed only after all requirements,	easured and true verti M/BIA. Required su recompletion in a new	ical depths of all pertin absequent reports shall w interval, a Form 316	nent markers and zones. be filed within 30 days 50-4 shall be filed once

Cross Timber Operating Co. has applied to the NMOCD for downhole commingle approval on the above mentioned well. Enclosed is a copy of the application (C-107A)that Cross Timbers has submitted.

Conditions of approval, if any, are attached. Approval of this notice does not warre certify that the applicant holds legal or equitable title to those rights in the subject which would entitle the applicant to conduct operations thereon.	nt or lease Office	
Approved by /S/ Duane W. Spencer	Töitin Lead, Petroleum Management	MAR - 1 1999
THIS SPACE FOR FEDER	AL OR STATE OFFICE USE	
	Date 2/19/99	
4. I hereby certify that the foregoing is true and correct Name (Printed/Typed)	Production Engineer	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Ms. Lori Wrotenbery New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 RESENTED 99 TED 23 Fil 12: 53 00 in a contraction (10)

Re: Administrative Approval to Downhole Commingle Cross Timbers Operating Co.

\*\*Bolack "C" LS #13\*\*

960' FSL & 800' FWL Sec. 29, T27N, R08W

San Juan County, New Mexico

Dear Ms. Wrotenbery,

Cross Timbers Operating Company hereby request administrative approval to downhole commingle the Blanco Mesaverde and South Blanco Pictured Cliffs pools in the above mentioned well. The well was originally completed as a dual completion with the Mesaverde being produced under a packer and up the tubing and the Pictured Cliffs being produced up the casing. Currently both the Mesaverde and Pictured Cliffs are producing. Through internal analysis it appears that both zones have been under produced. Most wells in this area (primarily Mesaverde wells) are very susceptible to liquid loading problems. Therefore to improve the recovery of liquids and to improve the ultimate recovery of production, Cross Timbers Operating Company is certain that if both zone are approved for downhole commingle then the above objectives can be obtained.

To comply with New Mexico Oil Conservation Rules, Cross Timbers Operating Co is submitting the following data for your approval of the proposed commingling:

- 1. C-107A Application for Downhole Commingle
- 2. C-102 Well Location & Acreage Dedication Plat
- 3. Production curves for both the Mesaverde & Pictured Cliffs Formation
- 4. Offset Operators Plat
- 5. Well Location Plat

In accordance to New Mexico Oil Conservation Division Rule 303C, all offset operators are being notified of this application. As an offset operator, if you do not have any objections to this application, you do not have to respond to this notification.

If additional information is needed, please feel free to contact Cross Timbers Operating Co.

Sincerely,

Jeffery W. Patton Production Engineer

CC: NMOCD -Aztec, Offset Operators, BLM 👙

DISTRICT!

DISTRICT II

P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

2040 S. Pacheco Santa Fe, New Mexico 875054-6429 Form C-107-A New 3-12-96

- APPROVAL PROCESS:

\_Administrative \_\_Hearing

\_X\_YES \_\_\_\_NO

811 S. First St., Arlesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

APPLICATION FOR DOWNHOLE COMMINGLING.

2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401 Cross Timbers Operating Company 08W <u>San Juan, NM</u> 29 27N M #13 Bolack C LS County Unit Ltr. - Sec - Twp - Rge Spacing Unit Lease Types: (check 1 or more) Lease Federal X. , (and/or) Fee API NO. 3004506200 State\_ Property Code 022596 OGRID NO. 167067 Lower Zone The following facts are submitted in support of downhole comminging interned ale Zana Blanco Mesaverde S. Blanco Pictured Cliff 1. Pool Name and 72319 Pool Code 72430 4630'-4762' (perf'd) 2378'-2388' (perf'd) Top and Bottom of Pay Section (Perforations) 2394'-2420' (perf'd) 3. Type of production (Oil or Gas) Gas Gas Method of Production
 (Flowing or Artificial Lift) Flowing Flowing a. (Current) 5. Bottomhole Pressure GOM. DIV 404 psia (calc) 134 psia (calc) Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: b. (Original) Measured Current b. ь All Gas Zones: Estimated Or Measured Original 1125 psia (calc) 685 psia (calc) 6. Oil Gravity (<sup>O</sup>API) or Gas BTU Content) 1317 1191 Producing Producing 7. Producing or Shut-In? Yes Production Marginal? (yes or no) Yes Date: Date: If Shut-In, give date and oil/gas/ water rates of last production Rates: Rates: Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data Date: 02/09/99 Date: Date: 02/09/99 \* If Producing, give date and oil/gas/

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Located 960 Feet From SOUTH	·· *////``	Feut		WEST	Lin
County SAN JUAN G. L. Elevati Name of Producing Formation MESA VERD		Dedicated Ad	renge 320 NCO EXT. 8	SO BLAN	A cre
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3. If the answer to question two is "no", list				-	** * * * * * * * * * * * * * * * * * *
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El Paso Natural Gas Company	<b>X</b>	<b>※</b>			
(Operator)	\$ <del></del>	🔆 –	<del></del>	<u></u>	-
Original Signed D. C. Johnston (Representative)	X.	$\Rightarrow$	•		
Box 997	X	\$			
· (Address)	<b>X</b>	· 🕉	:		
Farmington, New Mexico	X .	SECTION	29		
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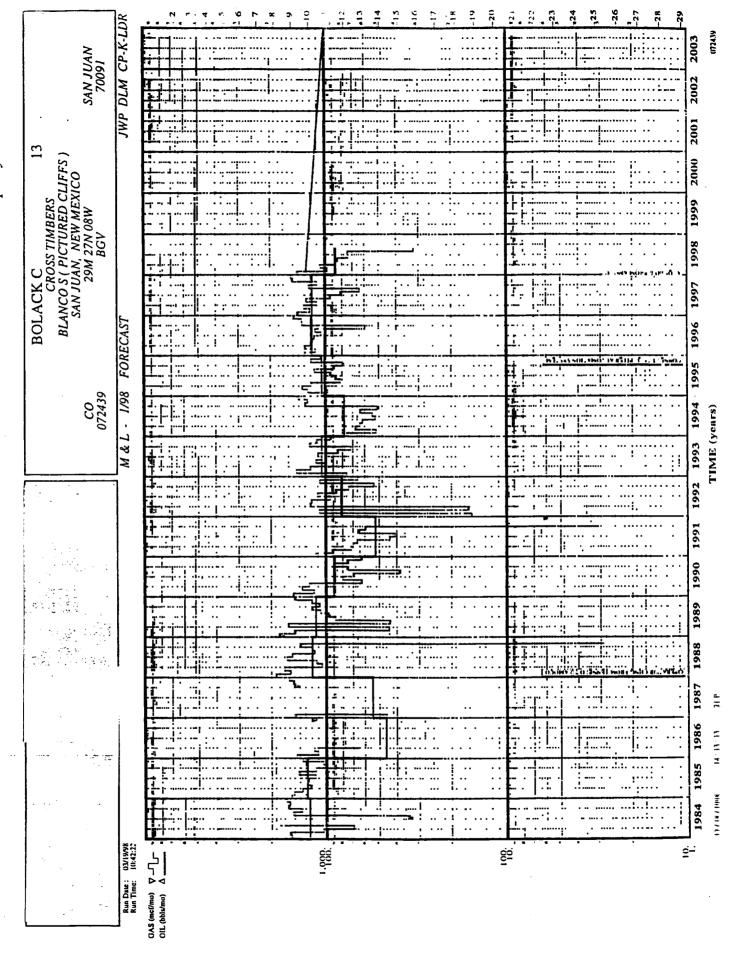
This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

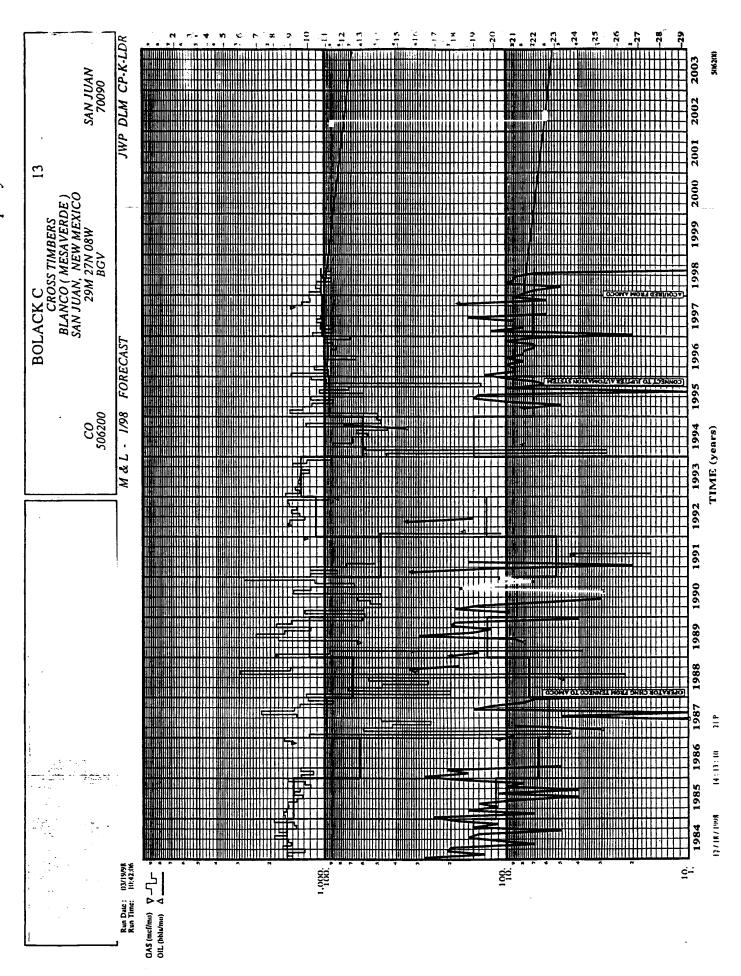
(Seal)

Farmington, New Mexico

Registered Professional Engineer and 'or Land Surveyor

Cross Timbers Oil Company





Re: Administrative Approval to Downhole Commingle

Cross Timbers Operating Co.

Bolack "C" LS #13

960' FSL & 800' FWL Sec. 29, T27N, R08W

San Juan County, New Mexico

Dear Offset Operator,

As an offset operator to the above mentioned well, you are hereby notified that Cross Timbers Operating Co is filing for downhole commingle approval.

As an offset operator, you have the right to file an objection to the commingling of the above mentioned well within twenty (20) days starting upon receipt of this letter. If you do not have any objections to the above well being commingled, you can either sign this letter waiving your rights to an objection or let the twenty days, upon receipt of this letter, expire.

Please return this letter or a letter of objection to Mr. David Catanach at the address listed.

Mr. David Catanach New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Cross Timbers Oil Co sincerely appreciate your prompt response concerning this approval.

Burlington Resources Oil & Gas	Signature:
Greystone Energy	Signature:
Roddy Production.	Signature:

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

811 S. First St., Artesia, NM 88210-2835

DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410-1693 State of New Mexico Energy, Minerals and Natural Resources Department

# OIL CONSERVATION DIVISION

2040 S. Pacheco Santa Fe, New Mexico 875054-6429

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

APPROVAL PROCESS:

\_\_\_Administrative \_\_\_Hearing

EXISTING WELLBORE

APPLICATION FOR	NOWNHOLE COM	MINGLIN	īG			_X\	res	NO
					_		NM	07/01
	2700 Farmington Av	e., Bldg.	<u>K.</u>	<u>Ste</u>	1	Farmington,	<u> INPI</u>	0/401

To No. 167067 Properly Cose 022595 APINO. 3004506200 Floating Common State of	ator Tack C LS	#13 M	29 27N	08W	San Juan, NM County
## production Marginary (Services and Services)  ## production Marginary (Services)  ## production Mar	se	770m No.		Spacing Uni	it Lease Types: (check 1 or more) State (and/or) Fee
Description   Description	RID NO. 167067 Property Code	022596 API NO. 3004	506200		
Pool Name and Production   Pr	he following facts are submitted in upport of downhole commingling	Upper			Zone
2 Top and Bottom of Physication (Perforations) 2398' - 2388' (perf' d) 2394' - 2420' (perf' d) 3 Type of production (Glar Gabs) Gas  4 Memora of Production (Flowing or Artificial Life (Flowing Artificial Life (Flowing Artificial Life (Flowing Artificial Life (Flowing Artificial Life (Glar Gabs) Gas OI - Prowing Messured Current (Gas A OI - Prowing Messured Current (Gas B OI - Prowing Messured Current (Gas B OI - Prowing Messured Current (Gas B OI - Prowing Messured Current (Gas B OI - Prowing Messured Current (Gas B OI - Prowing Messured Current (Gas B OI - Prowing Messured Current (Gas B OI - Prowing Messured Current (Gas B OI - Prowing Messured Current (Gas B OI - Prowing Messured Current (Gas B OI - Prowing Messured Current (Gas B OI - Prowing) Messured Current (Gas D OI - Production Messured Current (Gas D OI - Production Messured Current (Gas D OI - P					
3. Type of production 4. Method of Production Flowing 5. Bottomhole Pressure Oil Zoree - Artificial Lift: Estimated Current All Gas Zorees.  1.34 psia (calc) 1.34 psia (calc) 1.34 psia (calc) 1.34 psia (calc) 1.35 psia (calc) 1.35 psia (calc) 1.36 psia (calc) 1.37 producting 685 psia (calc) 1.37 producting or Shut-in? Producting or Shut-in? Producting Production Promula "\$ for each zone Production or past production, or is based upon some other method and providing rate projections or other required of submit attachments with supporting data and/or explaining method and providing rate projections or other required of submit attachments with supporting data and/or explaining method and providing projections or other required of the proposed download commingling Production be recovered, and will the allocation formula be reliable. Production be recovered, and will the allocation formula be reliable. Production be recovered, and will the allocation formula be reliable. Production be recovered, and will the allocation formula be reliable. Production curve for each zone for at least one year. Production curve for each zone for at least one year. Production curve for each zone for at least one year. Production curve for each zone for at least one year. Production curve for each zone for at least one year.	2. Top and Bottom of Pay Section (Perforations)	2378'-2388' (perf'd)			4630'-4762' (perf'd)
Section of Pressure  Concern 1 34 psia (calc)  134 psia (calc)  134 psia (calc)  134 psia (calc)  134 psia (calc)  135 producing Consecution Management Corrent  Set and Consecution Consecution Management Consecution Consec	3. Type of production (Oil or Gas)	Gas			Gas
Sold-independent of the Entire and Current  Class 8 of - Flowing  All Case Zones:  Cerement of Congress)  All Case Zones:  Cerement of Congress)  All Case Zones:  Cerement of Congress)  C	Method of Production     (Flowing or Artificial Lift)	Flowing	DEGEN	MED	Flowing
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1191 1317  7. Producing or Shut-in? Producing Producing Producing Producing  Producing Marginal? (yes or no)  * If Shut-in, give date and oil/gas/ water rate of lest production  Note: For new cost with no producion history, replicate in stall be required to study producing in the required to statish production  Note: For new cost with no production history, replicate in stall be required to statish production with so statish production and in the statish production and in the statish production and in the statish production and in the statish production and in the statish production of statish production and in the statish production of statish production and in the statish production of statish production and in the statish production of statish production of statish production of statish production of statish production of statish production of statish production of statish production of statish production of statish production of statish production of statish stati	Gas & Oil - Flowing: Measured Current	b. (Original)	CONTRACTOR	IDUVA 3	
Production Merginal? (yes or no)  * if Shut-in-give date and oil/gras/ water rates of last production  * if Shut-in-give date and oil/gras/ water rates of last production  * if Shut-in-give date and oil/gras/ water rates of last production  * if Shut-in-give date and oil/gras/ water rates of last production  * if Producing, give date and oil/gras/ water rates of location production  * if Producing, give date and oil/gras/ water rates of location that oil/gras/ water rates of location to general production  * if Producing, give date and oil/gras/ water rates of location to general give date and oil/gras/ water rates of location to general give date and oil/gras/ water rates of location  * if Producing, give date and oil/gras/ water rates of location to general give date and location  * if Producing, give date and oil/gras/ water rates of location to general give date and location  * if Producing, give date and oil/gras/ water rates of location to general give date and location  * if Producing, give date and location  * if Producing, give date and location  * if Producing, give date and location  * if Producing, give date and location  * if Producing, give date and location  * if Producing, give date and location  * if Producing, give date and location  * if It alias and					1317
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* Fired percentage Allocation Formula: * Knowledge and belief.  8. Fixed Percentage Allocation Formula: * Knowledge and belief.  10. * Falabes: * Knowledge and belief.  11. * Knowledge and Formula: * Knowledge and belief.  12. * Are all working, overriding, and royalty interests been notified by certified mail? * Knowledge and belief.  13. * Will cross-flow occur? * Yes X No If yes, are fluids compatible, will the formations not be damaged, will any crowledge and the value of production be recovered, and will the allocation formula be reliable. * Yes No (If No, attach explanation)  14. * If this well in on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. * Yes No (If Yes, attach explanation.)  15. * NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).  16. * ATTACHMENTS: * C-102 for each zone to be commingled showing its spacing unit and acreage dedication. * Yeoroucouton curve for each zone for at least one year. (If not available, attach explanation.) * Yeoroucouton 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. * Notification list of working, overriding, and royalty interests for uncommon interest cases. * Notification list of working, overriding, and royalty interests for uncommon interest cases. * * Any additional statements, data, or documents required to support commingling.  1 Intelligence of the percentage and belief. * TITLE * DATE * 2 - 19 - 90.* * TITLE * DATE * 2 - 19 - 90.* * TITLE * DATE * 2 - 19 - 90.* * TITLE * DATE * 2 - 19 - 90.* * TITLE * DATE	applicant shall be required to attach production estimates and supporting data	Date: 02/09/99	Date:		Date: 02/09/99
8. Fixed Percentage Allocation Promula is based upon something other than current or past production, or is based upon some other metric submit attachments with supporting data and/or explaining method and providing rate projections or other metric submit attachments with supporting data and/or explaining method and providing rate projections or other metric submit attachments with supporting data and/or explaining method and providing rate projections or other metric submit attachments with supporting data and/or explaining method and providing rate projections or other metric submit attachments with supporting data and/or explaining method and providing rate projections or other metric submit attachments with supporting data and/or explaining method and providing rate projections or other required of submit attachments with supporting data and/or explaining method and providing rate projections or other required of submit and providing and royalty interests been notified by certified mail?  10. Are all working, overriding, and royalty interests been notified by certified mail?  11. Will cross-flow occur?	water rates of recent test	Rates:	Rates:		
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10. Are all working, overriding, and royalty interests identical in all commingled commingled in the commingled power of the proposed downhole commingling?  If not, have all working, overriding, and royalty interests been notified by certified mail?  Have all offset operators been given written notice of the proposed downhole commingling?  11. Will cross-flow occur?Yes _X No	Eormula - % for each zone	d upon something other than o	current or past produc	tion, or is l	based upon some other meth jections or other required d
flowed production be recovered, and will the allocation formula be reliable.  12. Are all produced fluids from all commingled zones compatible with each other?  13. Will the value of production be decreased by commingling?  14. If this well in on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application.  15. NMOCD Reference Cases for Rule 303(D) Exceptions:  16. ATTACHMENTS:  17. *C-102 for each zone to be commingled showing its spacing unit and acreage dedication.  18. *Production curve for each zone for at least one year. (If not available, attach explanation.)  18. *Production curve for each zone for at least one year. (If not available, attach explanation.)  19. *Production curve for each zone for at least one year. (If not available, attach explanation.)  19. **Production curve for each zone for at least one year. (If not available, attach explanation.)  10. **Production curve for each zone for at least one year. (If not available, attach explanation.)  10. **Production curve for each zone for at least one year. (If not available, attach explanation.)  10. **Production curve for each zone for at least one year. (If not available, attach explanation.)  10. **Production curve for each zone for at least one year. (If not available, attach explanation.)  10. **Production is of or production method or formula.  10. **Notification list of a working, overriding, and royalty interests for uncommon interest cases.  11. **Notification list of working, overriding, and royalty interests for uncommon interest cases.  12. **Notification list of working, overriding, and royalty interests for uncommon interest cases.  12. **Notification list of working, overriding, and royalty interests for uncommon interest cases.  13. **Notification list of working, overriding, and royalty interests for uncommon interest cases.  14. **Notification list of working, overriding, and royalty interests for uncommon in	10. Are all working, overriding, and If not, have all working, overrid	royalty interests identical in all c ling, and royalty interests been no	ommingled zones? tified by certified mail? sed downhole comming	ling?	Yes — No X Yes — No
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CICNATURE TITLE DATE 2-19-97	* For zones with no   * Data to support all	production history, estimated pro ocation method or formula.	duction rates and suppo	orting data.	
SIGNATURE DATE	I hereby certify that the information	on above is true and complete to	the best of my knowled	ige and belie	ef.
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# EW MEXICO OIL CONSERVATION COMMETON

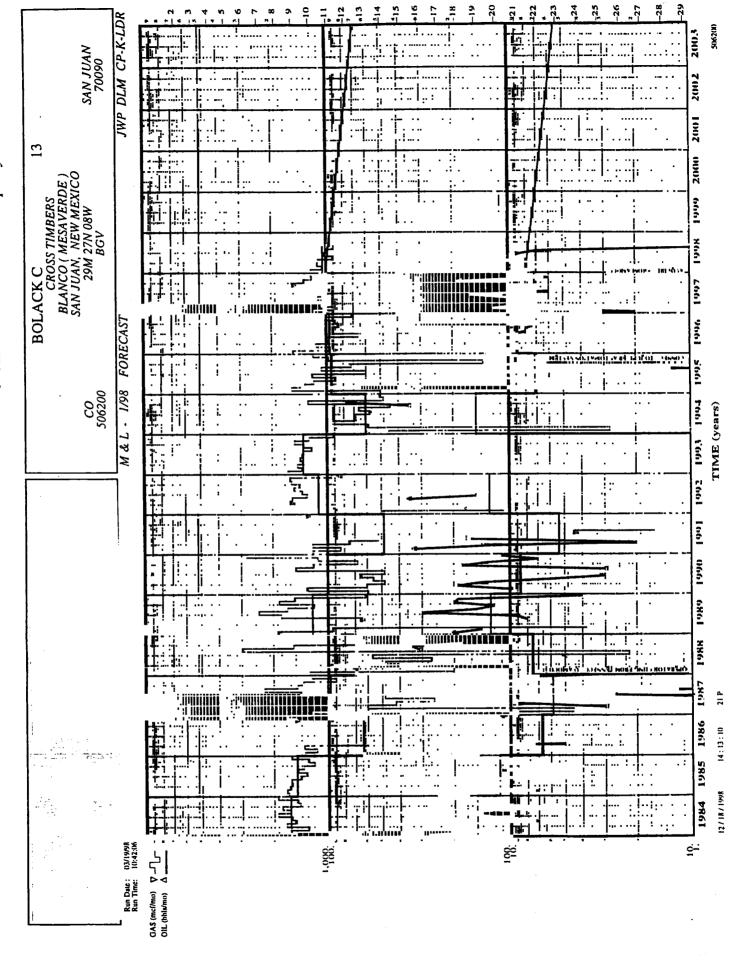
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Operator EL PASO NATURAL GAS COMPANY  Net No. 13-C (FM) Unit Letter	958
Located 9.0 Feet From SOUTH Line, 800 Pout From WEST County SAN JIAN G. L. Elevation 5.385 Dedicated Acronge 320.6.160 Name of Producing Formation WESA VERIES 6 PICTURED CLIFF Pool BLANCO EXT. 6 SO. BI  1. Is the Operator the only owner in the dedicated arreage outlined on the plat below?  Yes X No.  2. If the answer to question one is "no", have the interests of all the owners been consolidated by on agreement or otherwise? Yes No. If answer is "pes", Type of Consolidation.  3. If the answer to question two is "no", list all the owners and their respective interests below:  Owner Land Description  JAN  Section B.  Person Netural Gas Company (Operator)  (Operator)  (Operator)  (Operator)  (Operator)  (Operator)  (Operator)  (Address)  Farmington, New Mexico  SECTION 29  Section 1 inches equal 1 mile	·
County SAN JUAN G. L. Elevation 5385 Dedicated Accorage 320 \$160  Name of Producing Formation MESA VERDE & PICTURED CLIFF Pool BLANCO EXT. & SO. BI  I. Is the Operator the only owner in the dedicated arrange outlined on the plat below?  Yes X No [2]  If the answer to question one is "no", have the interests of all the owners been consolidated by consumer or otherwise? Yes [1] answer is "pes", Type of Consolidation.  3. If the answer to question two is "no", list all the owners and their respective interests below—  County Description  Section B.  Chis is to certify that the information a Section A above is true and complete the best of my knowledge and belief.  El Paco Natural Gas Company (Operator)  (Original Sined D. C. Johns'on (Representative)  Box 997  (Address)  Farmington, New Mexico  SECTION 29  Spond 1 inches equal 1 mile  Scale 1 inches equal 1 mile	NMPM Line
1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?  Yes X No  2. If the answer to question one is "no", have the interests of all the owners been consolidated by consequence of the answer to question two is "no", list all the owners and their respective interests below.  Owner  Land Description  JAP  This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.  El Paso Natural Ges Company (Operator)  Crig nal S gned D. C. Johns'on (Representative)  Box 997  (Address)  Farmington, New Mexico  SECTION 29  Scale I inches equal I mile	Acres
2. If the answer to question one is "no", have the interests of all the owners been consolidated by consequent or otherwise? Yes No If answer is "yes", Type of Consolidation.  3. If the answer to question two is "no", list all the owners and their respective interests below:  Owner  Land Description  JAN  Section B.  First to certify that the information in Section A above is true and complete in the best of my knowledge and belief.  El Paso Natural Gas Company (Operator)  Original Signed D. C. Johnston (Representative)  Box 997  (Address)  Farmington, New Mexico  SECTION 29  Section 29  Security inches equal 1 mile	ANCO PC
Section B.  Chis is to certify that the information a Section A above is true and complete to the best of my knowledge and belief.  EI Paso Natural Gas Company (Operator)  Crig nal S gned D. C. Johnston (Representative)  Box 997  (Address)  Farmington, New Mexico  SECTION 29  Special 1 inches equal 1 mile	nmunitization
Owner  Land Description  JAN  Section B.  Chis is to certify that the information in Section A above is true and complete in the best of my knowledge and belief.  El Paso Natural Gas Company (Operator)  Original Sined D. C. Johns'on (Representative)  Box 997  (Address)  Farmington, New Mexico  SECTION 29  SF 079232  Scale 1 inches equal 1 mile	•
Section B.  Chis is to certify that the information in Section A above is true and complete in the best of my knowledge and belief.  El Paso Natural Cas Company  (Operator)  (Representative)  Box 997  (Address)  Farmington, New Mexico  SECTION 29  SF 079232  Section 299 1320 1570 2643 2623 1370 0800 5000 5000 5000 5000 5000 5000 50	Commence of the State of
Chis is to cettify that the information in Section A above is true and complete the best of my knowledge and belief.  El Paso Natural Gas Company  (Operator)  (Representative)  Box 997  (Address)  Farmington, New Mexico  SECTION 29  SF 079232  Solution of the best of my knowledge and belief.  SECTION 29  SSCRION 29	name i Militaria. Mai kanta
Chis is to certify that the information in Section A above is true and complete the best of my knowledge and belief.  El Paso Natural Gas Company  (Operator)  (Representative)  Box 997  (Address)  Farmington, New Mexico  SECTION 29  SF 079232  SF 079232  Scale 4 inches equal 1 mile	31 iate
Chis is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.  El Paso Natural Gas Company (Operator)  Original Signed D. C. Johns'on (Representative)  Box 997  (Address)  Farmington, New Mexico  SECTION 29  SF 079232  SF 079232  Scale 1 inches equal 1 mile	
Chis is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.  El Paso Natural Gas Company (Operator)  Original Signed D. C. Johns'on (Representative)  Box 997  (Address)  Farmington, New Mexico  SECTION 29  SF 079232  SF 079232  Scale 1 inches equal 1 mile	
Chis is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.  El Paso Natural Gas Company (Operator)  Original Signed D. C. Johns'on (Representative)  Box 997  (Address)  Farmington, New Mexico  SECTION 29  SF 079232  SF 079232  Scale 1 inches equal 1 mile	·
Section A above is true and complete to the best of my knowledge and belief.  El Pago Natural Gas Company (Operator) Original Signed D. C. Johnston (Representative)  Box 997 (Address) Farmington, New Mexico  SECTION 29  SF 079232   C 3330 660 950 1320 1530 1360 2310 2643 2503 1570 .000 500 Scale 4 inches equal 1 mile	on.
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(Operator) (Representative)  Box 997 (Address)  Farmington, New Mexico  SECRION 29  SF 079232  Scale 4 inches equal 1 mile	
Criginal Signed D. C. Johnston (Representative)  Box 997  (Address)  Farmington, New Mexico  SECTION 29  SF 079232  Solid 4 inches equal 1 mile	
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This is to certify that the above plat was prepared from field notes of ac	mal surveys
made by me or under my supervision and that the same are true and correct	to the best
of my knowledge and belief.  Date-bryeved NOVEMBER 20, 1957	,
Data durveyed NOVEMBER 20, 195	
armington, New Mexico Registered Professional Engineer and for L.	and Surveyor

Cross Timbers Oil Company

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Cross Timbers Oil Company



Re:

Administrative Approval to Downhole Commingle

Cross Timbers Operating Co.

Bolack "C" LS #13

960' FSL & 800' FWL Sec. 29, T27N, R08W

San Juan County, New Mexico

Dear Offset Operator,

As an offset operator to the above mentioned well, you are hereby notified that Cross Timbers Operating Co is filing for downhole commingle approval.

As an offset operator, you have the right to file an objection to the commingling of the above mentioned well within twenty (20) days starting upon receipt of this letter. If you do not have any objections to the above well being commingled, you can either sign this letter waiving your rights to an objection or let the twenty days, upon receipt of this letter, expire.

Please return this letter or a letter of objection to Mr. David Catanach at the address listed.

Mr. David Catanach New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Cross Timbers Oil Co sincerely appreciate your prompt response concerning this approval.

Burlington Resources Oil & Gas	Signature:
Greystone Energy	Signature:
Roddy Production.	Signature:

# Bolack "C" LS #13

# Offset Operator / Ownership Plat Blanco Mesaverde / South Blanco Pictured Cliffs Downhole Commingle

Township 27 N, Range 08 W

- Burlington Resources Oil & Gas Company 3535 E. 30<sup>th</sup> St. Farmington, NM 87402
- Greystone Energy
   5802 Hwy 64
   Farmington, NM. 87401
- 3. Roddy Production P.O. Box 2221 Farmington, NM 87499
- 4. Cross Timbers Operating Co. 6001 E. Hwy 64
  Farmington, NM 87401

# Cross Timbers Operating Company

Offset Operator as indicated on previous page					
1 4	4 4	4 4			
10	20	21			
1 4	4 4	4 4			
1 4	4 4	4 4			
30	29	28			
1 4		4 4			
	Bolack C LS #13				
2 4	4 1	4 4			
31	32	33			
2 4	1 1	4 4			
	4				

Township 27N, Range 08W Form 3160-5 (November 1994)

## **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED					
Budget/Bur	eau No.	1004-0135			
		r 30, 2000			

		-
Expires	November	3

Э.	Lease	Setial	No.

SUNDRY NOTICES	AND REPORTS ON W	/ELLS		SF 079232		
Do not use this form for abandoned well. Use Form	proposals to drill or to re m 3160−3 (APD) for sucl	PECE	AEU	6. If Indian, Allo	ttee or Tribe	Name
SUBMIT IN TRIPLICATE -	- Other instructions on re	everse side	2 1999	7. If Unit or CA/	Agreement,	Name and/or No
. Type of Well Oil X Gas Other		ONL COLV	l. DIV.	8. Well Name and	d No.	
. Name of Operator		DIST.	3	Bolack C LS		#13
Cross Timbers Operating Company				A 150 W 11 11		
a. Address	3b. `	Phone No. (include area	code)	9. API Well No. 3004506200		
2700 Farmington Ave., Bldg. K. Ste				10. Field and Poo	ol or Explor	ratory Area
Location of Well (Footage, Sec., T., R., M., or Survey Description	ption)			S Blanco Pio Blanco Mesa	ctured (	
960' FSL & 800' FWL Sec 29, T27N	N, R08W			11. County or Pa Sna Juan	rish, State	NM
12. CHECK APPROPRI	IATE BOX(ES) TO INDICA	TE NATURE OF NO	TICE, REPORT.	OR OTHER DAT	A	
TYPE OF SUBMISSION		TYF	PE OF ACTION			~~~
X Notice of Intent	Acidize [	Deepen	Production	(Start/Resume)	Water S	Shut-Off
	Alter Casing	Fracture Treat	Reclamation	n [	Well Int	egrity
Subsequent Report	Casing Repair	New Construction	Recomplet	. []	Other	DHC
□ <del></del>	Change Plans	Plug and Abandon	= :	ly Abandon		
Final Abandonment Notice	Convert to Injection	Plug Back	Water Dis	· -		
in the enclosed procedure. This	Workover will begin	n as soon as ap	proval can	be obtained.  070 FARELLYGION, NM	99 MAR 19	RECEIVE BI M
14. I hereby certify that the foregoing is true and correcty  Name (Printed/Typed)		Title Produc	tion Engine		12: 31	
		Date 3/18/99				
	S SPACE FOR FEDERA	<del></del>	FICE USE			1000
Approved by /S/ Joe Hewitt		Title		Day	AR 29	) 1999
Conditions of approval, if any, are attached. Approval of certify that the applicant holds legal or equitable title to which would entitle the applicant to conduct operations thereon	those rights in the subject le					
Title 18 U.S.C. Section 1001, makes it a crime for an		illy to make to any de	partment or agen	y of the United S	states any f	alse, fictitious of

# Bolack "C" LS #13

DHC the MV & PC WORKOVER PROCEDURE

WI - 100.0000% NRI - 67.5000%

Casing:

Surface:

10-3/4", 32.75# csg @ 174' KB.

Intermediate: 7 5/8", 26.4#, J-55 csg @ 4,428' KB.

Liner:

5 1/2", 15.50#, J-55 csg fr/4,374'-4,825' KB.

PBTD (drillers) 4.780' KB.

**Perforations:** 

Pictured Cliffs fr/2,378'-88' & 2,394'-2,420' (2 JSPF).

Mesaverde fr/4,630'-40' 4,650'-60', 4,670'-80', 4,690'-4,710',

4,722'-40' & 4,750'-62' (2 JSPF).

**Tubing:** 

**Dual Strings:** 

SS. 73 its 1-1/4", 2.4#, J-55, EUE, 10rd siphon string tbg, 3' perf sub & 1 it 1-1/4" on btm. Perforated its @ 1,911' &

1,413'. Tbg landed @ 2,423'.

**LS**. 143 jts 2-3/8", 4.7#, J-55, EUE tbg, Baker "EGJ"

retrievable pkr, 10 jts 2-3/8" tbg, SN, 3' x 2-3/8" perf sub & 1 jt 2-3/8" tbg on btm. Landed @ 4,760'. Baker EGJ retrievable

packer @ 4,441'.

**Current Status:** 

MV currently flwg @ 14 MCFPD.

PC currently flwg @ 68 MCFPD on compression.

**Objective:** 

Remove 1-1/4" siphon string & 2-3/8" tbg & packer. CO well to

PBTD. RWTP on compression as a DHC.

- 1. Test anchors on location.
- 2. MIRU PU, pmp & pit. Fill pit w/2% KCl wtr. MI ±10 its of inspected and press tstd yellow band 2-3/8" tbg. Check and record tubing, casing and bradenhead pressures. Record production & pit tank gauges, if possible.
- 3. Blow down well and kill w/2% KCl wtr if necessary.
- 4. ND WH. NU and pressure test BOP's.
- 5. TOH & LD 1-1/4" siphon string tbg. Return 1-1/4" tbg to CTOC yard for inventory & inspection. Notify Larry Babcock that tbg has come from the Pictured Cliffs reservoir.
- 6. RU to pull 2-3/8" tbg. The Baker EGJ packer (@ 4,441' KB) is a compression set packer with a straight pull to release.
- 7. TOH w/tbg. Tally & inspect tbg while TIH. If pkr will not release. RU WL unit. RIH w/free point & chemical cutter. Cut tbg above pkr.
- 8. Fish for packer and remaining tbg if required. TOH & LD packer & bad 2-3/8" tbg. Replace bad tbg as needed. Return bad 2-3/8" tbg to CTOC yard. Notify

Larry Babcock that bad tbg is being returned from the Mesaverde side of the well.

- 9. PU & TIH w/4-3/4" cone bit, SN & 2-3/8" tbg. Tally tbg while TIH. Tag for fill. CO fill (if any) w/pmp bailer to PBTD @ 4,780' KB. Use air/foam unit if absolutely necessary.
- 10. Circ on bottom for a minimum of 1 hr using air/foam (if air/foam unit is used).
- 11. TOH. LD BHA.
- 12. TIH w/mule shoe collar, SN & ±153 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg. Tally tbg while TIH & tag for fill. Report to CTOC engineering if top of fill is higher than 4,760' KB. Land end of mule shoe @ 4,760' KB.
- 13. ND BOP. NU WH. RU swab. Swab well to pit. Gauge production. Once well can produce & stay unloaded, RWTP on comp dwn sales. Sell gas through MV separator & mtr run (mtr #74671). Notify Vern Thomas that RTU & mtr will be used for both MV & PC production. Adjust orifice plate accordingly.
- 14. RDMO PU. RU SU if necessary.
- 15. Notify Vern Thomas & EPFS that the PC mtr run (mtr #74670) & RTU (#1602) can be removed and returned to CTOC for salvage.

Approvals:	<del></del> -		 <u>.</u> .
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# **BOLACK "C" LS #13**

5-½", 15.5#, J-55, STC LINER @ 4,825. TOL @ 4,374". CMTD W/150 SKS 50/50 W/6% GEL, 1/83/ SX CELLOFLAKE FOLLOWED BY 50 SX NEAT CMT. SQUEEZED TOL W/15 SX NEAT CMT. 10-3/4", 32.75#, SW, STC CSG @ 173: CMTD W/150 SKS CLASS B. CIRC TO 7-5/8", 26.40#, 1-55, STC CSG @ 4,428'. CMT'D W/470 SX CMT FOLLOWED BY 50 SX CMT W/2% PC FR/2,378-88' & 2,394'-2,420' CACL2. TOC @ 1,950' BY TS. 4,670'-80', 4,690'-4,710', 4,722'-MV FR/4,630-40', 4,650'-60' 40' & 4,750'-62'. (2 JSPF) TOC @ 1,950' (TS) SQUEEZED CSG KB: 6,796' GL: 6,385' CORR: 11' W/150 SX CMT SOUFFZED TO W/40 SX CMT (2 JSPF) X 1-1/4" SS @ 2,423' RETRIEVABLE BAKER "EGJ" PKR @ 4,441 TD @ 4830' (DRILLERS) PBTD 4780' (DRILLERS) 2-3/8" LS SN @ 4,724' EOT @ 4,760' 12-1/4" HOLE 9-5/8" HOLE FOL @ 4,374' 6-3/4" HOLE

WELLBORE DIAGRAM

LOCATION: 960' FSL & 800' FWL, UNIT M, SEC 29, T-27-N, R-8-W COUNTY/STATE: SAN JUAN COUNTY, NM FIELD: BLANCO MESAVERDE / SOUTH BLANCO PICTURED CLIFFS

FORMATION: MESAVERDE / PICTURED CLIFFS

NM LEASE#: SF-079232 API#: 30-045-06200 CTOC WELL#: 70090 & 70091 SPUD DATE: 3/11/59 COMPLETION DATE: 4/26/59 IP: (MV) 2,219 MCFPD, 1," CK, 3 HRS. (PC) 1,118 MCFPD, 1," CK, 3 HRS.

PRODUCTION METHOD: FLWG GAS WELL
TUBING STRING: (LS) 143 JTS 2-38", 4.7", J-55, EUE, 8RD TBG, BAKER "EGJ" PKR & 10 JTS 2-3/8",
4.7#, J-55, EUE, 8RD TBG. SN @ 4,724" (1 JT ABOVE EOT). 3' PERF SUB @ 4,726"
(1 JT ABOVE EOT). EOT @ 4,760".
(SS) 73 JTS 1-1/4", 2.4#, J-55, EUE, 10RD TBG, 3' PERF SUB & 1 JT 1-1/4" TBG.
LANDED @ 2,423'. PERF SUB ON BOTTOM. PERFORATED JTS @ 1,911" & 1,413'.
PERFS: MESAVERDE (POINT LOOKOUT) 4,630"-40", 4,650"-60", 4,670"-80", 4,690"-4,710", 4,722"-4,740'. 4.750'-62' (2 JSPF).

PICTURED CLIFFS 2,378'-88' & 2,394'-2,420' (2 JSPF).

# HISTORY

SPUDDED 12-1/4" HOLE WITH CABLE TOOL RIG. 03/11/58

RAN 10-3/4", 32.75", SW, CSG @ 173'. CMT'D W/150 SX REG CMT. CIRC CMT TO SURFACE. RD CABLE TOOL RIG. 03/13/58

04/01/58

MIRU CM CARROLL DRILLING RIG 10. STD MAKING HOLE. RIH W/SCHLUMBERGER ES & ML LOG. LOGGED FR/4,425′. RAN 7-5/8″, 26.4″, J-55 CSG @ 4,428′. CMTD W/420 SX REG CMT W/GILSONITE FOLLOWED BY 50 SX NEAT CMT. TOC @

2.310' BY TEMP SUR.

PERFO CSG @ 2,310' & SQUEEZED W/100 SX NEAT CMT. NO SQUEEZE PRESSURE.
RE-SQUEEZED CSG W/50 SX CMT. TOC @ 1,950' BY TEMP SUR.
RAN 5-1/2", 15.5", J-55 LINER FR4,374' – 4,825'. CMT'D w/75 SX REG CMT, 75 SX POZMIX W/6% GEL FOLLOWED BY 50 SX NEAT. TOC 4,374' BY TEMP SUR. TOL LEAKING.
SQUEEZED TOL W/15 SX NEAT CMT. WOC.
DO CMT SQUEEZE. PT TOL. TOL LEAKING. RU TO SQUEEZE. 04/16/58 04/15/58

04/21/58 04/22/58

SQUEEZED TOL W/25 SX CMT. WOC. RU TO DO SQUEEZE. DO CMT SQEEZE & CO TO PBTD @ 4,780' PERF'D PT LOOKOUT FR/4,630'-40', 4,650'-60' 04/25/58

4,670-80', 4,690'-4,710', 4,722'-4,740' & 4,750'-62' (2 JSPF). FRAC W41,244 GALS WTR & 50,000" SD. FLUSHED W/9,000 GALS WTR. BD @ 1,775 PSIG. ATP 1,500 PSIG. AIR 64.5 BPM. DROPPED 7 SETS OF 20 BS FOR 8 STGS. RIH W/TEMPORARY BRIDGE PLUG TO 4,455'. PERF'D PC FR2,378'-88' & 2,394'-2,420' (2 JSPF). FRAC'D W/42,250 GALS WTR & 40,000# SD. BD @ 1,400 PSIG. ATP 1,200 PSIG. AIR 73.8 BPM. DROPPED 3 SETS OF 18 BS FOR 4 STGS. STD FLOWBACK.

04/26/58

DO BP & PUSHED TO BTM. WELL FLWG TO PIT. 04/27/58

BLEW DWN WELL. TIH W/TBG AS FOLLOWS: (LS) 1 JT 2-3/8" TBG, 3' PERF SUB, SN, 10 JTS 2-3/8", 4.7", J-55, EUE, 8RD TBG, BAKER "EGJ" PKR & 143 JTS 2-3/8", 4.7#, J-55, EUE, 8RD TBG. SN @ 4,724' (1 JT ABOVE EOT). 3' PERF SUB @ 4,726' (1 JT ABOVE EOT). EOT @ 4,760'. (SS) 1 JT 1-1/4" TBG, 3' PERF SUB & 73 JTS 1-1/4", 2.4#, J-55, EUE, 10RD TBG. LANDED @ 2,423'. PERF SUB @ 2,391'. PERFORATED(?) JTS @ 1,911' & 1,413'.

# BOLACK "C" LS #13 WELLBORE DIAGRAM

05/01/58 10/28/58 07/05/60 08/22/66 07/10/87

1/68 RDMO CM CARROLL DRLG RIG #10.

8/68 INSTALLED 1/4" CK ON DWN STREAM SIDE OF DEHY.

5/60 INSTALLED FISCHER CONTROLLER ON BACKPRESSURE REGULATOR.

2/66 INSTALLED CAMCO MTR VLV ON SEP.

5/60 INSTALLED CAMCO MTR VLV ON SEP.

5/60 INSTALLED CAMCO MTR VLV ON SEP.

5/60 INSTALLED CAMCO MTR VLV ON SEP.

1/60 INSTALLED CAMCO MTR VLV ON SEP.

1/60 INSTALLED NEW WEATHERFORD WH COMP (CTOC DIST TOOL SJB#12746).

1/60 INSTALLED NEW WEATHERFORD WH COMP (CTOC DIST TOOL SJB#12746).

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1/60 INSTALLED NEW WEATHERFORD WH COMP (CTOC DIST TOOL SJB#12746).

1/60 INSTALLED NEW WEATHERFORD WH COMP (CTOC DIST TOOL SJB#12746). 01/01/98 11/20/98 11/24/98

# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

#### **ADMINISTRATIVE ORDER DHC-2239**

Cross Timbers Operating Company 2700 Farmington Ave. Building K Suite 1 Farmington, NM 87401

Attention: Mr. Jeffery W. Patton

MAR 1 5 1999

OLL CON. DUV.

DIST. 3

Bolack "C" LS Well No. 13 API No. 30-045-06200 Unit M, Section 29, Township 27 North, Range 8 West, NMPM, San Juan County, New Mexico. South Blanco-Pictured Cliffs (Prorated Gas – 72439) Blanco-Mesaverde (Prorated Gas - 72319) Pools

#### Dear Mr. Patton:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the above described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the zones is hereby placed in abeyance.

The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

Assignment of allowable to the well and allocation of production from the well shall be on the following basis:

South Blanco-Pictured Cliffs Gas Pool	Oil 0%	Gas 56%	
Blanco-Mesaverde Gas Pool	Oil 100%	Gas 44%	

REMARKS: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303.H., the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 12th day of March, 1999.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

LORI WROTENBERY

Director

SEAL

LW/DRC

cc: Oil Conservation Division - Aztec

Bureau of Land Management-Farmington