	7/23/15 SUSPEN	SE ENGINEER MAM LOGGED IN 7/24/15 TYPE DHC APP NO DJA615205253
		ABOVE THIS LINE FOR DIVISION USE ONLY
-		NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505
		ADMINISTRATIVE APPLICATION CHECKLIST
T	THIS CHECKLIST IS M	ANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
	[DHC-Down [PC-Po	ndard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] ool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] lified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF AP [A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication well: Bit H & #51, 52, 53, 3 NSL NSP SD API. Pending
	Check	One Only for [B] or [C]
	[B]	Comminating Starses Measurement
		Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM Pool Weir; 6/ine
	[B]	Commingling - Storage - Measurement         X       DHC       CTB       PLC       PC       OLS       OLM       Pool       Weir; bline         Injection - Disposal - Pressure Increase - Enhanced Oil Recovery       + 3         WFX       PMX       SWD       IPI       EOR       PPR         #:63780         Other: Specify
[2]	[B] [C] [D]	Commingling - Storage - Measurement X DHC CTB PLC PC OLS OLM <u>Pool</u> Weir; bline Injection - Disposal - Pressure Increase - Enhanced Oil Recovery + 3 WFX PMX SWD IPI EOR PPR #:63780
[2]	[B] [C] [D] NOTIFICAT	Commingling - Storage - Measurement X DHC CTB PLC PC OLS OLM Pool Weiri bline Injection - Disposal - Pressure Increase - Enhanced Oil Recovery + 3 WFX PMX SWD IPI EOR PPR #:63780 Other: Specify + 3 ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
[2]	[B] [C] [D] NOTIFICAT [A]	Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM Pool Weiri bline Injection - Disposal - Pressure Increase - Enhanced Oil Recovery + 3 WFX PMX SWD IPI EOR PPR WFX OF MAX SWD IPI EOR PPR H: 63780 Coher: Specify + 3 ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners
[2]	[B] [C] [D] NOTIFICAT [A] [B]	Commingling - Storage - Measurement X DHC CTB PLC PC OLS OLM Pool Weiribline Injection - Disposal - Pressure Increase - Enhanced Oil Recovery + 3 WFX PMX SWD IPI EOR PPR #:63780 Other: Specify + 3 ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners X Offset Operators, Leaseholders or Surface Owner

# [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

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

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

Ashley Bergen	ashlerBer	M Regulatory Specialist	
Print or Type Name	Signature V	Title	Date

ashley.bergen@conocophillips.com e-mail Address District I 1625 N. Fredeh Drive, Hobbs, NM 88240 7

District II 811 S. First St., Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztee, NM 87410

District IV

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

State of New Mexico Energy, Minerals and Natural Resources Department

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

Form C-107A Revised August 1, 2011

APPLICATION TYPE

 X
 Single Well

 Establish Pre-Approved Pools

 EXISTING WELLBORE

 Yes
 X\_No

#### APPLICATION FOR DOWNHOLE COMMINGLING

ConocoPhillips Comp	bany	P.O. Box 51	810 Midland, TX 79710		
Operator		Address			
Britt B	51	O- 10- 20S- 37E		LEA	
Lease	Well No.	Unit Letter-Section-Tow	vnship-Range	County	
OGRID No.217817	Property Code 31365	API No. <u>30-025-</u>	Lease Type: <u>X</u> Fec	ieralState	Fee

DATA ELEMENT	UPPER Z	ONE	INTERMEI	DIATE ZONE	LOWER	R ZONE
Pool Name	Skaggs Glorieta		Weir-Blinebry		Monument Tubl	b
Pool Code	57190		63780	·····	47090	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	~5180'-5314' TVE	)	~5647'-6359' TV	/D	~6359'-6662' TV	VD
Method of Production (Flowing or Artificial Lift)	Artifical Lift		Artifical Lift		Artifical Lift	
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	~2555		~2440		~2150	
Oil Gravity or Gas BTU (Degree API or Gas BTU)	~39		~39		~39	
Producing, Shut-In or New Zone	New Zone		New Zone		New Zone	
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: TBD		Date: Rates: TBD		Date: Rates: TBD	
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil TBD %	Gas TBD %	Oil TBD %	Gas TBD%	Oil TBD%	Gas TBD%

#### **ADDITIONAL DATA**

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes_X Yes	No No
Are all produced fluids from all commingled zones compatible with each other?	Yes <u>X</u>	No
Will commingling decrease the value of production?	Yes	No <u>X</u>
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?	Yes <u>X</u>	No
NMOCD Reference Case No. applicable to this well:		
<ul> <li>Attachments:</li> <li>C-102 for each zone to be commingled showing its spacing unit and acreage dedication.</li> <li>Production curve for each zone for at least one year. (If not available, attach explanation.)</li> <li>For zones with no production history, estimated production rates and supporting data.</li> <li>Data to support allocation method or formula.</li> <li>Notification list of working, royalty and overriding royalty interests for uncommon interest cases.</li> <li>Any additional statements, data or documents required to support commingling.</li> </ul>		

District 1 1625 S. Franch Drive, Hobbs, NM 88240

District II 811 S. First St., Artesia, NM 88210

District III 1000 Rio Brazos Road, Artee, NM 87410

District IV

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

State of New Mexico Energy, Minerals and Natural Resources Department

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

Form C-107A Revised August 1, 2011

APPLICATION TYPE Single Well Establish Pre-Approved Pools EXISTING WELLBORE Yes X\_No

#### APPLICATION FOR DOWNHOLE COMMINGLING

ConocoPhillips Com	bany	P.O. Box 51	810 Midland, TX 79710		
Operator		Address			,
Britt B	51	O- 10- 20S- 37E		Lea	
Lease	Well No.	Unit Letter-Section-Tov	vnship-Range	County	
OGRID No.217817	Property Code 31365	API No. <u>30-025-</u>	Lease Type: X Federa	IlState	Fee

DATA ELEMENT	UP	PER ZON	E	INTEI	RMEDIATE Z	ONE	LOWEI	R ZONE
Pool Name		,			• • • • • • • • • • • • • • • • • • • •		Skaggs Drinkare	d
Pool Code					-		57000	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)				1.00			~6662'-6974' T`	VD
Method of Production (Flowing or Artificial Lift)							Artifical Lift	
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the . depth of the top perforation in the upper zone)							~2100	
Oil Gravity or Gas BTU (Degree API or Gas BTU)							~39	
Producing, Shut-In or New Zone Date and Oil/Gas/Water Rates of							New Zone	
Last Production. (Note: For new zones with no production history, applicant shall be required to attach production	Date:			Date:			Date:	
estimates and supporting data.)	Rates:			Rates:			Rates: TBD	
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil	Gas	3	Oil	Gas		Oil	Gas
than current or past production, supporting data or explanation will be required.)		%	%		%	%	TBD%	TBD%

#### **ADDITIONAL DATA**

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes_X Yes	No No
Are all produced fluids from all commingled zones compatible with each other?	Yes X	No
Will commingling decrease the value of production?	Yes	NoX
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?	Yes X	No
NMOCD Reference Case No. applicable to this well:		
<ul> <li>Attachments:</li> <li>C-102 for each zone to be commingled showing its spacing unit and acreage dedication.</li> <li>Production curve for each zone for at least one year. (If not available, attach explanation.)</li> <li>For zones with no production history, estimated production rates and supporting data.</li> <li>Data to support allocation method or formula.</li> <li>Notification list of working, royalty and overriding royalty interests for uncommon interest cases.</li> <li>Any additional statements, data or documents required to support commingling.</li> </ul>		

DISTRICT I 1625 N. French Dr., Hobbs, NM 66240 Phone (575) 393-6361 Fax: (575) 393-0720 DISTRICT II 1301 W. Grand Avenus, Artesia, NM 88210 Phone (676) 748-1283 Fax: (575) 748-9720

ł

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone (505) 534-6178 Pax: (505) 534-6170

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 67605 Phone (506) 478-3480 Fax: (506) 478-3462

# State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

Revised August 1, 2011 Submit one copy to appropriate District Office

Form C-102

□ AMENDED REPORT

API Number			Pool Code		Ska	aggs; Glorieta	Pool Name		
30-025 Property Code	I	57190		Ртор	erty Nam			Well Nu	ımber
31365	_				ITT B			51	
OGRID No. 217817			1	<sup>Opera</sup> CONOCC	ator Nam ) PHII			Blevat 356	
					e Loca		·····		-
UL or lot No. Section	Township	Range	Lot Idn	Feet fro		North/South line	Feet from the	East/West line	County
0 10	20 S	37 E		12	30	SOUTH	2515	EAST	LEA
		Bottom	Hole Lo	cation I	f Diffe	rent From Sur	face		
UL or lot No. Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	Feet from the	East/West line	County
Dedicated Acres Joint o 40	r Infill Co	nsolidation (	Code   O	rder No.					
NO ALLOWABLE W		SSIGNED '		COMPLE	TION I		DECTS HAVE DE	EN CONSOLIDI	TED
NO ALLOWADLE W						APPROVED BY '		EN CONSOLIDA	
	Long ~ W 10 NUSPCE_ N	32°35'01.46" 03°14'20.18" 577828.881 878428.424 83) (2°35'01.02" 03°14'18.46" 577767.247 837245.696		· 			I hereby cer contained hereit the best of my this organisation interest or unled land including i location or has or to a voluntar compulsory pool the division. Signature Ashley Printed Name ashley.ber Email Address SURVEYO I hereby certify on this plat we actual surveys supervison and correct to the NOVE	gen@cop.com R CERTIFICAT that the well locat that the well locat as plotted from field made by me or d that the some is best of my belie the top top top the top top top the top top top the top top top the top top top top the top top top top top top the top	ation ste to and that ing th the the sole well at with an interest, or a misred by Date VION ion shown i notes of under my true and

Y

Ľ

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phans (878) 383-6161 Faz: (578) 383-0720 DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210 Phone (578) 748-1285 Faz: (578) 748-9720 DISTRICT III

r

1

DISTRICT III 1000 Rio Brazos Rd., Aztsc, NM 87410 Phone (505) 334-5175 Faz: (505) 334-5170 DISTRICT IV

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone (505) 476-3480 Pax: (505) 478-3482

#### State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505 Revised August 1, 2011

Form C-102

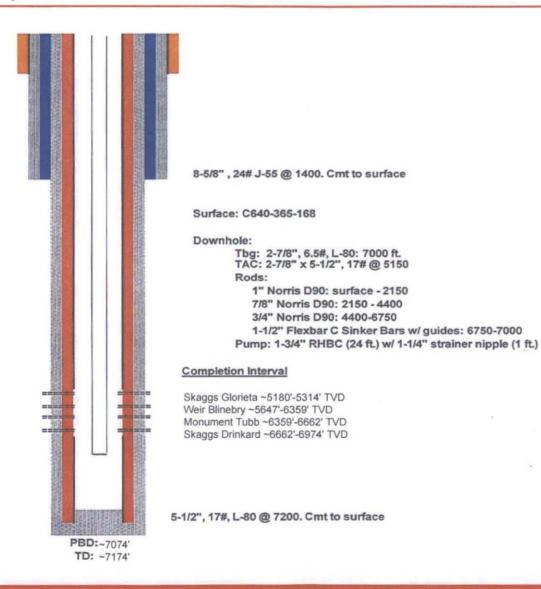
Submit one copy to appropriate District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

D AMENDED REPORT

		WELL LO	CATION	AND ACR	EAGE DEDICATI	ON PLAT		
API Number 30-025			Pool Code 47090; 57	7000 V	Veir Blinebry; Mo	Pool Name nument Tubb	; Skaggs Drink	ard
Property Code				Property N			Weil Nu	umber
31365 ogrid no.				BRITT Operator N			51 Elevat	
217817			С	ONOCO PH			3569	
<u> </u>				Surface Lo	···	<u>l</u>		
UL or lot No. Section	on Township	Range	Lot Idn	Feet from the	e North/South line	Feet from the	East/West line	County
0 10	20 S	37 E		1230	SOUTH	2515	EAST	LEA
	2	Bottom	Hole Loc	ation If Dif	fferent From Sur	face	•	
UL or lot No. Section	n Township	Range	Lot Idn	Feet from the	e North/South line	Feet from the	East/West line	County
Dedicated Acres Joi 40	at or Infill C	onsolidation (	Code Ord	der No.	_ <u></u> I,,	<u>I</u>	I	
NO ALLOWABL	E WILL BE A	SSIGNED '	TO THIS	COMPLETION	UNTIL ALL INTE	RESTS HAVE BI	EEN CONSOLIDA	TED
<u>_</u>	OR A	NON-STAN	DARD UN	IT HAS BEE	N APPROVED BY	THE DIVISION		
	Lat - N Long - W 1 NMSPCE- N (NAD- Lat - N Long - W 1	32*35'01.02" 03*14'18.46" 577767.247 837245.696				I hereby oc contained here the best of my this organizatio interest or undul land including location or has this location pro- owner of such or to a volunta compulsory pool the division MALE Signature Ashley Printed Nam ashley.beit Email Addres SURVEYO I hereby certiff on this plat w actual surveys supervison ar correct to th NOV Date Surveys Signature & Professional	rgen@cop.com	ation ste to and that ing in the ole well at with an interest, or a mtered by Date Date

# **Britt B 51 Proposed Well Schematic: Production Well**





8

## Skaggs-Glorieta Pool Commingling with Weir-Blinebry (or Weir-Blinebry East), Monument-Tubb, and Skaggs-Drinkard Pools

Britt-B Acreage Field Study and Preliminary Results

### Summary

ConocoPhillips is proposing to commingle the Skaggs-Glorieta pool with the three preapproved pools, i.e., Weir-Blinebry (or Weir-Blinebry East)<sup>\*</sup> pool, Monument-Tubb pool, and Skaggs-Drinkard pool as a part of ConocoPhillips' Blinebry, Tubb, and Drinkard (BTD) development program in Sections 10, 11, and 15, T20S, R37E, Lea County, New Mexico. The working, net revenue, and royalty interests are the same for all pools within the lease being proposed for this commingle. The fluids from all zones are compatible. The allocation will be determined through down-hole production allocation tests after completion.

## Purpose

ConocoPhillips requests to commingle the Skaggs-Glorieta ("Glorieta") with the three pre-approved pools, i.e., Weir-Blinebry (or Weir-Blinebry East) pool, Monument-Tubb pool, and Skaggs-Drinkard pools, in SW/4 NW/4 and S1/2 Section 10, W1/2 SW1/4 . Section 11, and W/2 and W/2 E/2 Section 15, T20S-R37E in order to access reserves that would otherwise be stranded. Development of the Blinebry, Tubb, and Drinkard (BTD) is not competitively economic as initial production rates and recoveries are low. The commingling of these pools is expected to enhance production and boost ultimate recovery from the field. This will result in increased revenue for royalty interests and lease holder.

With commingling, the total recoverable resource in COP's Britt-B lease is estimated to be ~5.8 MMBO and 11.3 BCFG or an incremental 165 MBO and 324 MMCF per well, for up to 35 potential 40-acre and 20-acre spaced wells in the Britt-B lease. Our 2017 development plan targeting the Glorieta plus BTD includes the Britt B 51, Britt B 52, Britt B 53, Britt B 54, and Britt B 55 proposed wells.

## History

ConocoPhillips operates the Britt-B lease in Sections 10, 11, and 15, T20S R37E. This lease has produced from the BTD since the 1960's. Historically, the BTD has been successful in this area with high Initial Production (IP) and long production lives. However, as reservoir pressure declines and the reserves move into lower reservoir quality areas, the BTD pool is becoming uncompetitive and uneconomic. A review of a nearby drilling program meant to produce the BTD pools suggests that the production from the two zones (Glorieta and BTD) needs to be commingled to have more favorable economics, especially in the current economic environment.

<sup>&</sup>lt;sup>\*</sup> The same formation, Blinebry is called by Weir-Blinebry pool or Weir-Blinebry East pool, depending only on surface location.

The Glorieta started to be commingled with the BTD as early as 1979 in the Britt-B #26 (See Figure 1). It showed some uplift potential. For example, the Glorieta in the Britt-B #13 was discovered to have potential to produce at high rates. The high rate was again repeated in 1998 in the Britt-B #34, with exclusive Glorieta production. The Glorieta, however, hasn't shown consistent results and is considered uneconomic by itself. Therefore, in conjunction with modern completion methods, the commingling of the Glorieta and Blinebry, Tubb, and Drinkard pools in the ConocoPhillips Britt-B lease will allow both of these reserves to be produced economically and at low risk. If this pilot project is successful it will prove the viability of further downhole commingling in future wells. This would also allow recompletions into the Glorieta to be commingled with historical BTD production.

### **Reservoir Details**

· ·

The Glorieta and BTD are substantially similar in characteristics to make them compatible for downhole commingling. Oil gravity comparisons between the Glorieta, Blinebry, Tubb, and Drinkard reservoirs indicate that the type of oil found in these reservoirs is similar; approximately 39 degrees API according to the Britt-B #34 and SEMU #174 production analyses.

The upper Blinebry, Tubb, and Drinkard are the better reservoir quality areas of the Yeso group formations. The Drinkard tends to be more water saturated than the other formations, while the Tubb tends to be gassier than the other two. The reservoir productive quality is striated with low permeability areas. There is a lot of gross interval to net pay in the Yeso group reservoirs (see Figure 2).

The Glorieta is a higher porosity-permeability reservoir, usually with good oil saturation (see Figure 3). There is a risk of water production due to its proximity with the water saturated Paddock formation below it. A cross section is included in Figure 4.

The pore pressure gradients for the Glorieta and BTD are expected to be similar (~0.40 psi/ft). The BTD is expected to be normally pressured to slightly under-pressured due to historical production. If there is cross-flow between the two zones due to a high fluid level or over-pressured zone, it is expected that production will be recovered once the fluid level is pumped back down or the pressure stabilizes between the two zones.

Production is expected to vary widely among the layers. There will be a total of four layers spreading approximately 1,800 feet apart. The majority of the water is expected to come from the lowest and highest zones (Drinkard and Glorieta). The majority of the gas is expected to come from the middle two layers (Blinebry and Tubb). This, however, is speculation based on a study done in the Warren Unit. The production test and production profile will be useful in confirming this along with the Glorieta production. Appendix A includes the economics for BTD production which is requested to be kept confidential.

## **Allocation Method**

.

The production allocation method for all zones will be based on a cumulative zone production test (subtraction method) carried out post completion. This will be done the following way:

The Blinebry-Tubb-Drinkard zone will be completed and production tested for a minimum of 45 days. Afterwards, the Blinebry-Tubb-Drinkard will be isolated by a retrievable bridge plug positioned above the Blinebry completion. The Glorieta will be completed and production tested for a minimum 45 days. Afterwards, following the removal of the retrievable bridge plug, the well will be placed on production from the Glorieta & Blinebry-Tubb-Drinkard with production allocation (oil, gas & water) based on:

<u>Glorieta Allocation</u>: Glorieta well test volumes / (Glorieta well test volumes + Blinebry-Tubb-Drinkard well test volumes)

<u>Blinebry-Tubb-Drinkard Allocation</u>: Drinkard well test volumes / (Glorieta well test volumes + Blinebry-Tubb-Drinkard well test volumes)

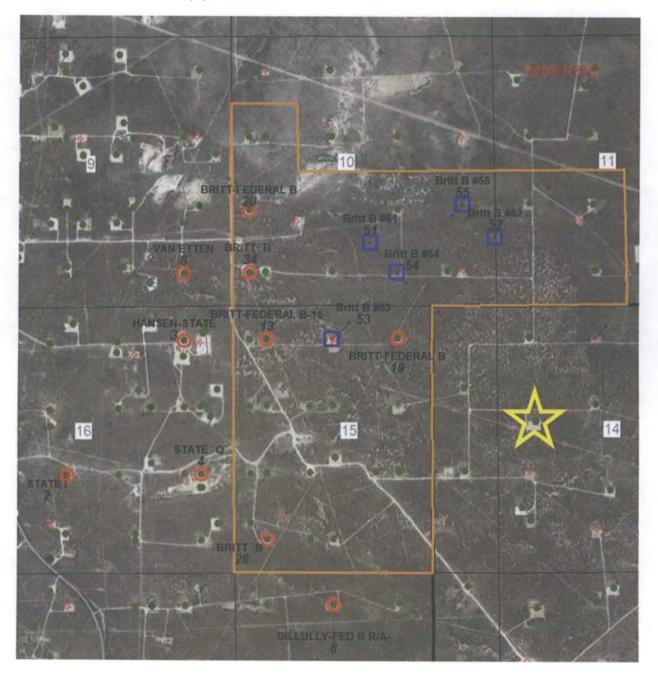
Our proposal includes production tests on the first two or three wells, depending on initial results.

Based on our review of historical production, the expected allocation for new drill wells is 36% from the Glorieta and 64% from the BTD, according to the estimated first year production average on BOE basis.

## **Preliminary Supporting Details**

٠

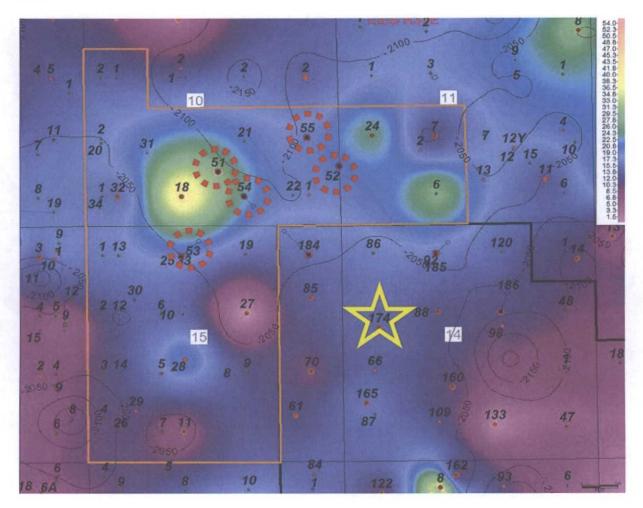
**Figure 1:** Map of all wells used in the Glorieta forecast, which are circled in red. Note that the wells outlined by blue squares are the proposed new drills and the BTD type curve well is indicated by yellow star.



**Figure 2:** Blinebry/Tubb/Drinkard reservoir quality (SoPhiH) map. The wells with red circles are the proposed Britt-B wells, and the one with yellow Star is SEMU 174 type-well.

٠

\*



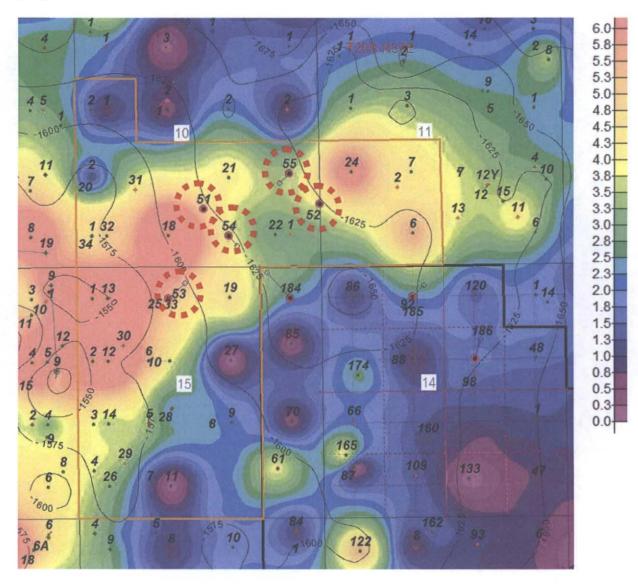


Figure 3: Glorieta reservoir quality (SoPhiH) map. The wells with red circles are the proposed Britt-B wells.

.

×

and	The second secon	Ch. Minuter Marking
. 34-	Elementer al most around an and	hund marally maraken be
(14-16	F Refer Broken	
B5	E	wand hunder
Sadd	I AND AND AND THE PROPERTY AND	and a second with the large the second
19 19	The survey of the second	THE REPORT OF TH
THE PARTY	1	- mansher hand
		L. B.
1-722 0	El	manstration
3		
******	1 Sugar Bally Aun was he we delay and	And the Part of the line
Salu ata		and a start
	The state of the s	Anna Frankrika R. Salara
1. States		- marmine
NTI A STONE	The same state and the same stat	. Infamily is infame a straight
Shares.	El hanne forthe and a more site of the second second	Marian and and and the second
	The second	Line of the set of the
24 Percent	Elman setemation and an and a setemation of the set of	Mr. Marine Marine
and the	E - Contraction and state and an and and and and and and and and	
MALLI P	1 manufarman and an and an and an and	a manufal Manufan
A TRAT		Patron Andrew March Strand
19811-24	Elementer and	and man have and have been been been been been been been be
1-288		1919
	El moderal a Marian have defended and a company and	MANTW MANAGER
1 100-0	11 1. Lawrence A. C. A. M. B. C. Manufill	AN AND AN
1000 million	I was had some march a some the some the	www.
10 1 N 1	Fill P Land and a Lifetanting and a lange	
	"I have broken for a state of the state of t	

Figure 4: Glorieta, Paddock, Blinebry, Tubb, Drinkard cross-section

\*

.

# Appendix A

• •

Start Date $3/3/2015$ Capital $51,800$ Rate         NPV         NPV         Pretax IRR           Working Interest $30,856$ Gas Tax $7,356$ $006$ $(622)$ $(937)$ $-956$ Dil Price [5/mcf] $53.00$ Oli Tax $4,656$ $006$ $(622)$ $(937)$ $-956$ Dil Price [5/mcf] $53.00$ Oli Tax $4,656$ $011$ $638$ $006$ $(822)$ $(937)$ $-956$ Dil Frice [5/mcf] $53.00$ $011$ $6383$ $011$ $6383$ $011$ $6383$ $(864)$ $(1025)$ Coross Production         Net Production         Net Production         Price         Revenue $500$ $300$ $(236)$ 2015         11.6         664         5.1         29.0 $500$ $300$ $(236)$ 2017         5.9         24.1 $2.6$ $14.9$ $500$ $300$ $128$ 2020         2.7 $15.5$ $12.6$ $68.5$ $5000$ $30.6$ $47$	After Tax IRR -15%
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	IRR
Working interest         50%         Tax Rate         35%         Gas Tax         7.5%         Off         Ms         (MS)         (MS)           Ner Rev Interest         43.8%         Gas Tax         7.5%         Gas Tax         4.6%         (622)         (937)         -9%           Gas Price [5/mcf]         S3.00         Ad Val Rate         2%         0%         (827)         (1021)         10%         (827)         (1024)         10%         (845)         (1024)         10%         (845)         (1024)         10%         (845)         (1024)         10%         (845)         (1024)         10%	-
Working Interest Net Rev Interest (Di Price [5/bbf])         506 (500)         Tax Rate (Gas Tax         35% (Gas Tax         Office (Gas	-15%
Oil Price [5/bbi]         550 Gas Price [5/mcf]         Oil Tax S3.00         4.5% Ad Val Rate         10%         (827)         (1,021)           OpE (5/mcf)         S3.00         Ad Val Rate         2%         10%         (827)         (1,024)           OpE (5/mcf)         S3.00         Ad Val Rate         2%         15%         (864)         (1,025)           Oil Gas         Oil Gas         Oil Gas         Oil Gas         Oil Gas         Oil Gas         Sime           2015         11.6         664         5.1         29.0         500         3.0         236           2016         8.8         50.4         3.8         2.2.1         50.0         3.0         125           2018         4.4         25.0         1.9         10.9         50.0         3.0         128           2019         3.4         19.3         1.5         8.5         50.0         3.0         80           2020         2.7         15.5         1.2         6.8         50.0         3.0         80           2021         1.6         9.2         0.7         4.0         50.0         3.0         47           2022         1.6         9.2         0.7         4.0	· · ·
Gas Price [5/mcf]         \$3.00         Ad Val Rate         2%         12%         (845)         (1,024)           OpEx [5/mb1]         \$7         57         15%         (845)         (1,024)           Gross Production         Net Production         Price         Revenue           0il         Gass         0il         Gass         5/bit         5	>
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	>
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	<u>)</u>
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	>
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	>
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	,¢
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	*
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
2027       1.0       5.6       0.4       2.5       50.0       3.0       29         2028       0.9       5.1       0.4       2.2       50.0       3.0       26         2029       0.8       4.6       0.4       2.0       50.0       3.0       24         Total       54.3       311.4       23.7       136.2       1,596         Cum Cash         Prod Tax       Ad Val Tax [MS]       Operating: Operating CF       CapEx       Cr [MS]       [MS]       CF [MS]       [MS]         2015       18       7       36       279       1,800       -1,521       0       -1521       -1521         2015       18       7       36       279       1,800       -1,521       0       -1521       -1521         2015       18       7       36       279       1,800       -1,521       0       -1521       -1521         2016       14       5       27       212       0       212       74       138       -1309         2017       9       3       14       105       0       105       37       68       -1061         2018       7       <	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Total         54.3         311.4         23.7         136.2         1,596           Prod Tax [M\$]         Ad Val Tax [M\$]         Operating Operating CF Costs [M\$]         Pre Tax (M\$]         Taxes After Tax CF [M\$]         Pre Tax (M\$]         Taxes After Tax (M\$]         Pre Tax (M\$]         After Ta	
Total         54.3         311.4         23.7         136.2         1,596           Prod Tax [M\$]         Ad Val Tax [M\$]         Operating Operating CF Costs [M\$]         Pre Tax (M\$]         Taxes After Tax CF [M\$]         Pre Tax (M\$]         Taxes After Tax (M\$]         Pre Tax (M\$]         After Ta	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
Prod Tax [MS]         Ad Val Tax [MS]         Operating - Operating CF Costs [MS]         Pre Tax [MS]         Taxes After Tax CF [MS]         Pre Tax [MS]         Taxes After Tax [MS]         Pre Tax [MS]         After Tax [MS]         Pre Tax After Tax [MS]	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Flow
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	fter Tax
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	[MS]
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	••••••
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-1521
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-1383
2019       5       2       11       81       0       81       28       53       -979         2020       4       2       8       65       0       65       23       42       -914         2021       4       2       7       54       0       54       19       35       -860	-1290
2020     4     2     8     65     0     65     23     42     -914       2021     4     7     54     0     54     19     35     -860	-1222
	-1169
	-1126
	-1091
2023 3 (1 - ) 5 39 0 39 14 25 -776 2024 2 1 4 34 0 34 12 22 -742	-1091 -1062
	-1091 -1062 -1037
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-1091 -1062 -1037 -1015
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-1091 -1062 -1037 -1015 -996
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-1091 -1062 -1037 -1015 -996 -978
2029 1, $0$ 2 19 0 19 7 13 -522	-1091 -1062 -1037 -1015 -996 -978 -963
Total 85 32 32 37 170 57 1,309 1,800 4,491,30,361 4, 4851 4	-1091 -1062 -1037 -1015 -996 -978 -963 -963
	-1091 -1062 -1037 -1015 -996 -978 -963
	-1091 -1062 -1037 -1015 -996 -978 -963 -963
	-1091 -1062 -1037 -1015 -996 -978 -963 -963
	-1091 -1062 -1037 -1015 -996 -978 -963 -963

 Table 1: Blinebry/Tubb/Drinkard standalone economics

### **Preliminary Field Study Results**

4

The last drilling program in this part of SEMU that targeted the Blinebry, Tubb, and Drinkard was generally uneconomic, with the exception being SEMU 174 that had an IP of 48 BOPD and 273 MCFD. This will add an incremental 55 MBO and 310 MMCF per well. The gas curve is based on a GOR of ~5.7 MCF/STB (see Figures 5 and 6).

SEMU 174 had the best reservoir quality compared to the other wells in its program, as shown by logs. The Britt-B area tends to be of higher or comparable reservoir quality to SEMU 174. For this reason in conjunction of a modern completion design, the Blinebry/Tubb/Drinkard type-curve was chosen to be based on the performance of SEMU 174. The 40-acre Original Oil In Place (OOIP) for the Blinebry/Tubb/Drinkard in the Britt-B lease was calculated to be 3.3 MBO.

### **Justification for Commingle Proposal**

At current commodity prices, the estimated production (type curve) from the BTD in these wells is not sufficient to pay off the costs of a drilling program to this depth. With some successes being shown in the offsetting wells, in regards to producing the Glorieta and downhole commingling it with the Blinebry/Tubb/Drinkard, an uplift of 45 BOPD and 6 MCFD in the IP rate is expected (Figure 7). This will add an incremental 110 MBO and 14 MMCF per well.

The production curve is based on the production from wells inside and immediately surrounding the Britt-B lease (see Figure 1). The oil curve is based on an average of the IP rates and the decline rates of the wells. The gas curve is based on a GOR of 0.13 MCF/STB taken from the Britt-B #34, the only Glorieta only producer in the lease.

The reservoir quality for the Glorieta in the Britt-B area is comparable to the offsetting Glorieta producers. The  $P50^{\ddagger}$  40-acre OOIP for the Glorieta producers was found to be ~1.1MMBO; there is confidence that the Glorieta will be a major production contributor. For convenience we include the BLM Downhole Commingle Worksheet.

<sup>&</sup>lt;sup>‡</sup> P50 refers to an estimate with 50% certainty.

## **Supporting Details**

٠

.

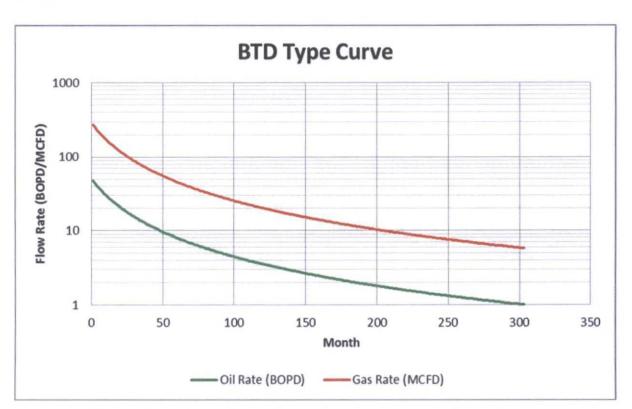


Figure 5: Weir-Blinebry/Weir-Blinebry East/Monument-Tubb/Skaggs-Drinkard type curve

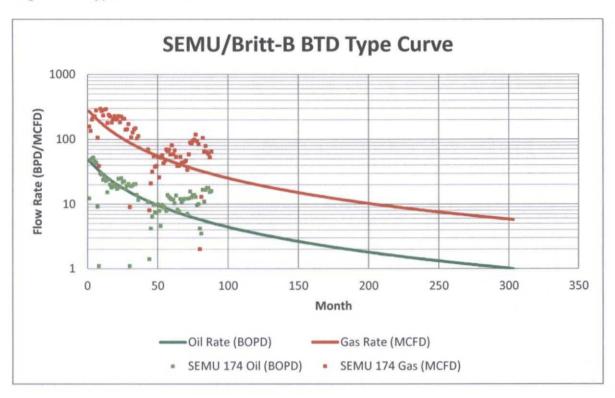
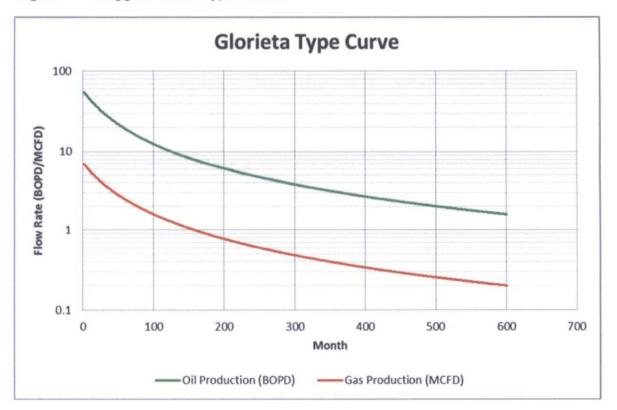


Figure 6: Type curve with SEMU 174 actual well test data

ŝ

Figure 7: Skaggs-Glorieta type curve.



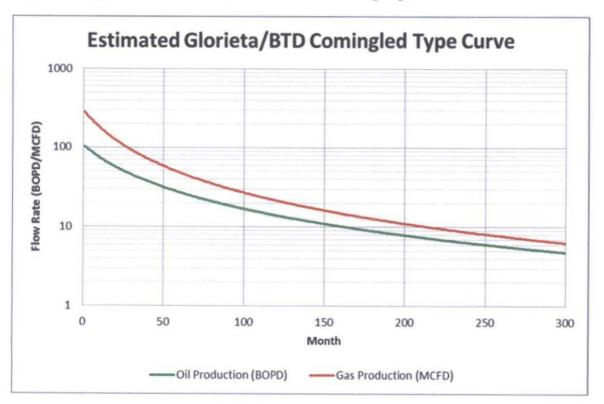


Figure 8: Type curve of Glorieta and BTD commingling

.



## www.permianls.com

575.397.3713 2609 W Marland Hobbs NM 88240

For:	ConocoPhillips Attention: Vernoi 1410 W. County Hobbs, New Mex	Road		Sample: Identific; Compar Lease: Plant:	ation:	Meter Run Britt B #34 ConocoPhillips	
Sample Data:	Date Sampled Analysis Date Pressure-PSIA Sample Temp F Atmos Temp F	2/18/2014 2/19/2014 35 83	12:52 PM	Sampleo Analysis		Logan McIlroy Vicki McDaniel	
H2S =	4,500 PPM						
	Сол	ponent Anal	ysis				
Hydrogen Sulfide	H2S	Mol Percent 0.450		GPM	-		
Nitrogen	N2	2.639					
Carbon Dioxide	CO2	1.329					
Methane	C1	74.780					
Ethane	C2	10.706		2.856			
Propane	C3	5.398		1.483			
I-Butane	IC4	0.779		0.254			
N-Butane	NC4	1.919		0.604			
I-Pentane	IC5	0.583		0.213			•
N-Pentane	NC5	0.628		0.227			
Hexanes Plus	C6+	0.789		0.342			
	н 11 г.	100.000		5.978			
REAL BTU/CU.FT.			Specific Gr	avity			
At 14.65 DRY	1261.3		Calculate		0.7683		
At 14.65 WET	1239.3		Galoulat		0.7000	·	
At 14.696 DRY	1265.2						
At 14.696 WET	1243.7	,	Molecular V	Neight	22.2509		
At 14.73 DRY	1268.1			veignit	22.2003		
At 14.73 Wet	1246.3						
•						•	



### www.permianls.com 575.397.3713 2609 W Marland Hobbs NM 88240

#### **ASTM DISTILLATION**

ConocoPhillips Attention: Vernon Mackey 1410 W. County Road Hobbs, New Mexico 88240

Sampled By: Logan McIlroy Sample Date: 2/18/14

Sample ID: Britt B #34

Percent Distilled **Temperature** IBP 125 5 165 202 10 %Recovered = 93.0 20 261 30 % Residue = 4.0 327 % Loss = 3.0 40 435 **5**0 515 60 610 70 693 80 738 90 761 EΡ 765

Total Sulfur	API Gravity	Specific Gravity
0.6484 wt.%	39.3	0.8284



## www.permianls.com

### 575.397.3713 2609 W Marland Hobbs NM 88240

For:	ConocoPhillips Attention: Vernor 1410 W. County Hobbs, New Mer	Road		Sample: Identifica Compan Lease: Plant:		Casing SEMU 174 ConocoPhillips
Sample Data:	Date Sampled Analysis Date Pressure-PSIA Sample Temp F Atmos Temp F	2/18/2014 2/19/2014 83		Sampled Analysis		Logan Mçilroy Vicki McDaniel
H2S =	4,400 PPM					
	Corr	ponent Anal	lysis			
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane I-Butane N-Butane I-Pentane N-Pentane Hexanes Plus	H2S N2 CO2 C1 C2 C3 IC4 NC4 IC5 NC5 C6+	Mol Percent 0.440 2.604 0.618 75.574 9.514 5.478 0.754 2.143 0.602 0.815 <u>1.458</u> 100.000		GPM 2.538 1.505 0.246 0.674 0.220 0.295 0.631 6.108		
REAL BTU/CU.FT At 14.65 DRY At 14.65 WET At 14.696 DRY At 14.696 WET At 14.73 DRY At 14.73 Wet	1299.6 1276.9 1303.6 1281.4 1306.6 1284.0		Specific Gra Calculate Molecular V	d	0.7809 22.6163	



www.permianls.com 575.397.3713 2609 W Marland Hobbs NM 88240

**ASTM DISTILLATION** 

ConocoPhillips Attention: Vernon Mackey 1410 W. County Road Hobbs, New Mexico 88240

Sampled By: Logan McIlroy Sample Date: 2/18/14

Sample ID: SEMU 174

Percent Distilled	Temperature		
IBP	130		
5	180		
10	215		
20	280	%Recovered =	94.0
30	345	% Residue =	4.0
40	445	% Loss =	2.0
50	536		
60	617		
70	680		
80	703		•
90	738		
EP	741		

Total Sulfur	API Gravity	Specific Gravity
0.3688 wt.%	39.4	0.8279

# **NALCO** Champion

An Ecolab Company Attention:Anthony.baeza@champ-tech.com

Location Code: 23130

Sample ID: AB42153

Login Batch: 2014-02-24\_MFA\_SWICPW

Collection Date: 02/19/2014

Receive Date: 02/24/2014

Report Date: 03/03/2014

Analyses	Result	Unit
Dissolved CO2	50	mg/L
Dissolved H2S	188.1	mg/L
рН	8	
Pressure	70	psi
Temperature	83	°F

Cations	Result	Unit
Iron	0.038	mg/L
Manganese	0.013	mg/L
Barium	0.056	mg/L
Strontium	66.68	mg/L
Calcium	2657	mg/L
Magnesium	804.1	mg/L
Sodium	28272.82	mg/L

۷

Customer: ConocoPhillips (1500390)

Region: Eunice Field Location: Britt B Lease System: Production System Equipment: Well 34 Lab ID: ABU-1031

Sample Point: Well Head Valve Up Stream of Choke

Analyses	Result	Unit
Bicarbonate	634.4	mg/L
Conductivity	130163	µS - cm3
tonic Strength	1.47	
Resistivity	0.077	ohms - m
Specfic Gravity	1.055	
Total Dissolved Solids	83304.07	mg/L

Anions	Result	Unit
CHLORIDE	48988.96	mg/L
SULFATE	1880	mg/L

Scale Type	Result
Anhydrite CaSO4 SI	-0.52
Barite BaSO4 SI	-0.53
Calcite CaCO3 PTB	263.3
Calcite CaCO3 SI	1.17
Celestite SrSO4 SI	-0.07
Gypsum CaSO4 SI	-0.35
Hemihydrate CaSO4 SI	-0.35
Saturation Index Calculation (Toms	on-Oddo Model)

Comments:		

This document contains the confidential and/or proprietary information of NALCO Champion. The recipient agrees to maintain the confidentiality of the terms of this document, and shall not reproduce It by any means, disclose the contents of it to any third party, or use the contents of it for any purpose other than the purpose for which it was intended by NALCO Champion.

.

# NALCO Champion

An Ecolab Company Attention:Anthony.baeza@champ-tech.com

Location Code: 23299 Sample ID: AB42154

Login Batch: 2014-02-24\_MFA\_SWICPW

Collection Date: 02/19/2014

Receive Date: 02/24/2014

Report Date: 03/03/2014

Result	Unit
50	mg/L
119.7	mg/L
8	
100	psi
81	° F
	50 119.7 8 100

Cations	Result	Unit
Iron	0.082	mg/L
Manganese	0.044	mg/L
Barium	0.078	mg/L
Strontium	95.58	mg/L
Calcium	3793	mg/L
Magnesium	1040	mg/L
Sodium	41169.79	mg/L

Scale Type	Result
Anhydrite CaSO4 SI	-0.46
Barite BaSO4 SI	-0.55
Calcite CaCO3 PTB	195.3
Calcite CaCO3 SI	1.12
Celestite SrSO4 SI	-0.05
Gypsum CaSO4 SI	-0.34
Hemihydrate CaSO4 SI	-0.38
Saturation Index Calculation (Tomso	n-Oddo Model)

## Water Analysis Report

Customer: ConocoPhillips (1500390)

Region: Eunice Field Location: SEMU Tubb Lease System: Production System Equipment: Well 174 Lab ID: ABU-1031

Sample Point: Well Head Valve Up Stream of Choke

Analyses	Result	Unit
Bicarbonate	475.8	mg/L
Conductivity	187614	µS - cm3
Ionic Strength	2.13	
Resistivity	0.053	ohms - m
Specfic Gravity	1.082	
Total Dissolved Solids	120073.1	mg/L

Anions	Result	Unit
CHLORIDE	71983.77	mg/L
SULFATE	1515	mg/L

Comments:		 

This document contains the confidential and/or proprietary information of NALCO Champion. The recipient agrees to maintain the confidentiality of the terms of this document, and shall not reproduce it by any means, disclose the contents of it to any third party, or use the contents of it for any purpose other than the purpose for which it was intended by NALCO Champion.

# NALCO Champion

An Ecolab Company Attention:Anthony.baeza@champ-tech.com

Location Code: 23130

Sample ID: AB42153

Login Batch: 2014-02-24\_MFA\_SWICPW

Collection Date: 02/19/2014

Receive Date: 02/24/2014

Report Date: 03/03/2014

Analyses	Result	Unit
Dissolved CO2	50	mg/L
Dissolved H2S	188.1	mg/L
рН	8	
Pressure	70	psi
Temperature	83	۰F

Cations	Result	Unit
Iron	0.038	mg/L
Manganese	0.013	mg/L
Barium	0.056	mg/L
Strontium	66.68	mg/L
Calcium	2657	mg/L
Magnesium	804.1	mg/L
Sodium	28272.82	mg/L

Water	Analysis	Report
-------	----------	--------

Customer: ConocoPhillips (1500390)

Region: Eunice Field Location: Britt B Lease System: Production System Equipment: Well 34 Lab ID: ABU-1031

Sample Point: Well Head Valve Up Stream of Choke

Analyses	Result	Unit
Bicarbonate	634.4	mg/L
Conductivity	130163	µ\$ - cm3
Ionic Strength	1,47	
Resistivity	0.077	ohms - m
Specfic Gravity	1.055	
Total Dissolved Solids	83304.07	mg/L

Anions	Result	Unit
CHLORIDE	48988.96	mg/L
SULFATE	1880	mg/L

Scale Type	Result
Anhydrite CaSO4 St	-0.52
Barite BaSO4 SI	-0.53
Calcite CaCO3 PTB	263.3
Calcite CaCO3 SI	1.17
Celestite SrSO4 SI	-0.07
Gypsum CaSO4 SI	-0.35
Hemihydrate CaSO4 SI	-0.35
Saturation Index Calculation (Tomso	n-Oddo Model)

This document contains the confidential and/or proprietary information of NALCO Champion. The recipient agrees to maintain the confidentiality of the terms of this document, and shall not reproduce it by any means, disclose the contents of it to any third party, or use the contents of it for any purpose other than the purpose for which it was intended by NALCO Champion.

Michael Fitzgerald SE New Mexico Permian

ConocoPhillips Company 600 N. Dairy Ashford P10-05-5055 Houston, TX 77079

Phone: 281-206-5684 Michael.d.fitzgerald@cop.com



June 9, 2015

RE: Downhole Commingling Application <u>Township 20 South, Range 37 East, N.M.P.M.</u> Section 10: SW/4 SE4 and E/2 SE/4 Section 15: NE/4 NW/4 Containing 160.00 acres, more or less Lea County, New Mexico

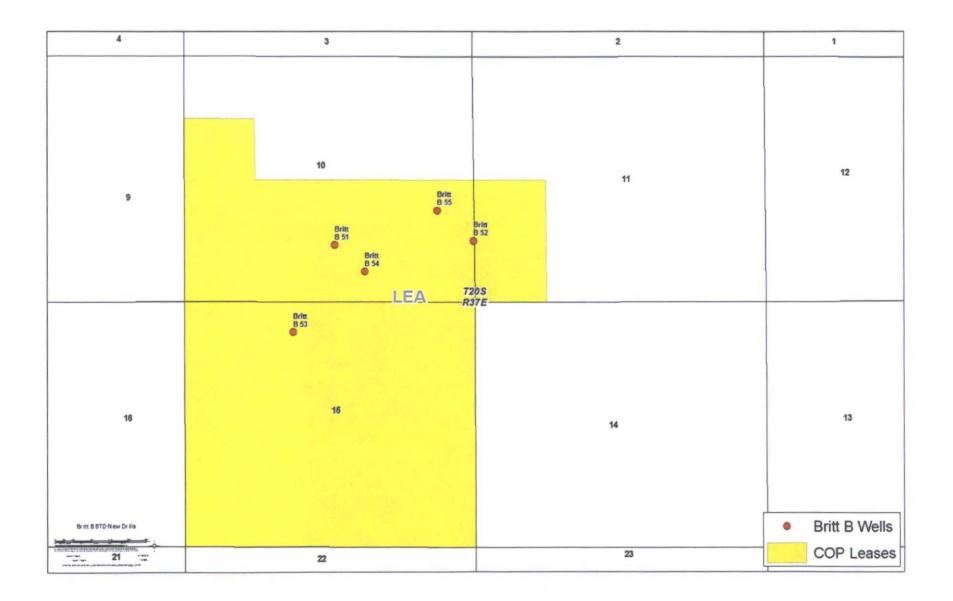
ConocoPhillips Company, as operator of the Britt-B Lease, is seeking approval to downhole commingle the wells referenced herein. (See attached map for specific locations).

Britt-B wells numbered 51, 52, 53, 54, and 55 are all located on the Britt-B Federal Lease (NMLC-031621B).

Interest Owner	Working Interest	Net Revenue Interest
ConocoPhillips Company	50.000%	43.750%
Chevron USA Inc.	25.000%	21.875%
ZPZ Delaware LLC	25.000%	21.875%
Office of Natural Resource Revenue	<u>00.000%</u>	<u>12.500%</u>
Total	100.000%	100.00%

I certify that the above information is true and correct.

Michael Fitzgerald Associate Landman ConocoPhillips Company



Ashley Bergen Regulatory Specialist Phone: (432) 688-6938 ConocoPhillips

ConocoPhillips Company P.O. Box 51810 Midland, TX 79710-1810

July 20, 2015

е 6 🖡

Chevron USA Inc. 15 Smith Rd, Claydesta Plaza Midland, TX 79705

COPY

SUBJECT: REQUEST FOR APPROVAL OF DOWNHOLE COMMINGLE FOR BRITT B LEASE

To Whom It May Concern:

ConocoPhillips Company is requesting an approval to Downhole Commingle the Skaggs-Glorieta Pool (57190) with the pre-approved pools Weir-Blinebry (63780), Weir-Blinebry East (63800), Monument-Tubb (47090), and Skaggs-Drinkard (57000) pools in ConocoPhillips' Blinebry, Tubb, Drinkard development program in Sections 10 and 15, T20S, R37E, Lea County, New Mexico.

You are being provided notification of this action as an interest owner in the spacing unit. Any comments need to be provided to New Mexico Oil Conservation Division; 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505 within 20 days.

If you have any questions regarding this request, I can be reached at 432-688-6938 or via email at ashley.bergen@cop.com

Sincerely,

- VDergen

Ashley Bergen Regulatory Specialist



Ashley Bergen Regulatory Specialist Phone: (432) 688-6938 ConocoPhillips Company P.O. Box 51810 Midland, TX 79710-1810

July 20, 2015

/a .....

ZPZ Delaware LLC 303 Veterans Airpark Lane Midland, TX 79705



#### SUBJECT: REQUEST FOR APPROVAL OF DOWNHOLE COMMINGLE FOR BRITT B LEASE

To Whom It May Concern:

ConocoPhillips Company is requesting an approval to Downhole Commingle the Skaggs-Glorieta Pool (57190) with the pre-approved pools Weir-Blinebry (63780), Weir-Blinebry East (63800), Monument-Tubb (47090), and Skaggs-Drinkard (57000) pools in ConocoPhillips' Blinebry, Tubb, Drinkard development program in Sections 10 and 15, T20S, R37E, Lea County, New Mexico.

You are being provided notification of this action as an interest owner in the spacing unit. Any comments need to be provided to New Mexico Oil Conservation Division; 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505 within 20 days.

If you have any questions regarding this request, I can be reached at 432-688-6938 or via email at ashley.bergen@cop.com

Sincerely,

lap Bergen

Ashley Bergen Regulatory Specialist

Ashley Bergen Regulatory Specialist Phone: (432) 688-6938 ConocoPhillips

ConocoPhillips Company P.O. Box 51810 Midland, TX 79710-1810

July 20, 2015

44

Office of Natural Resource Revenue Room A 614 Building 85 Denver Federal Center (6<sup>th</sup> Kipling) Denver, CO 80225

COPY

SUBJECT: REQUEST FOR APPROVAL OF DOWNHOLE COMMINGLE FOR BRITT B LEASE

To Whom It May Concern:

ConocoPhillips Company is requesting an approval to Downhole Commingle the Skaggs-Glorieta Pool (57190) with the pre-approved pools Weir-Blinebry (63780), Weir-Blinebry East (63800), Monument-Tubb (47090), and Skaggs-Drinkard (57000) pools in ConocoPhillips' Blinebry, Tubb, Drinkard development program in Sections 10 and 15, T20S, R37E, Lea County, New Mexico.

You are being provided notification of this action as an interest owner in the spacing unit. Any comments need to be provided to New Mexico Oil Conservation Division; 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505 within 20 days.

If you have any questions regarding this request, I can be reached at 432-688-6938 or via email at ashley.bergen@cop.com

Sincerely,

ley Borgen

Ashley Bergen Regulatory Specialist

		SEN	DER: COMPLETE TH	IS SECTION	COMPLETE THIS SEC	TION ON DEL	IVERY	
• •			mplete items 1, 2, and m 4 if Restricted Delive		A. Signature	· · ·	□ Agent	
	Ŧ	🛢 Pri	int your name and add that we can return the	ress on the reverse	X		Address	
		🔳 Att	ach this card to the ba on the front if space pe	ick of the mailpiece,	B. Received by (Printe	d Name)	C. Date of Delive	ery
		·	Icle Addressed to:	· · · · · · · · · · · · · · · · · · ·	D. Is delivery address of If YES, enter deliver			·
		Ch	erron					
	1	15	smith R	d.				
			ydesta		3. Śervice Type			
			dland, TX		Registered	Priority Mai     Return Rec     Collect on I	eipt for Merchandi	isə
	,				4. Restricted Delivery	? (Extra Fee)	C Yes	
	1	(Tra	icle Number ansfer from service label)	נסק	1000 0505 8	2047 9	182 <u></u>	
<b></b> ]	-	PS Fo	orm 3811, July 2013		etum Receipt	1		
		C DE CLOY	(Domestic Mail Only		Postmark Here Band Bandlesm Band Band Bandlesm Band Band Bandlesm Band Band Band Band Band Band Band Band Band Ban		Certified Fee Return Recelpt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required)	Total Postage & Fees &
	item 4 if Rest Print your nar so that we ca Attach this ca	ns 1, 2, ar ricted Deli ne and ad n return th rd to the t	nd 3. Also complete very is desired. Idress on the reverse the card to you. back of the mailpiece,	A. Signature X B. Received by (Prir	52E	16 2402 16 2402 	20 000 20 0007	
	or on the fron		permits.	D. Is delivery addres				
	ZPZ			If YES, enter deliv				FA
		ᡃᡟᢕᡞ᠌ᠺ	AirparkLo				KRA AT, TOP, OF, EUVEL	
-			79705	3. Service Type		میں دیکر ہوتے ہوئے ہوئے ہوئے۔ میں ایک		
.  ~	NGIGINO	.,	19103	Certified Mail Certified Mail Registered Insured Mail 4. Restricted Delive	Collect on Delivery			
2,	Article Number		7013			- 100		
, p:	(Transfer from so S Form 3811,			ic Return Receipt				
	= • •,	,						

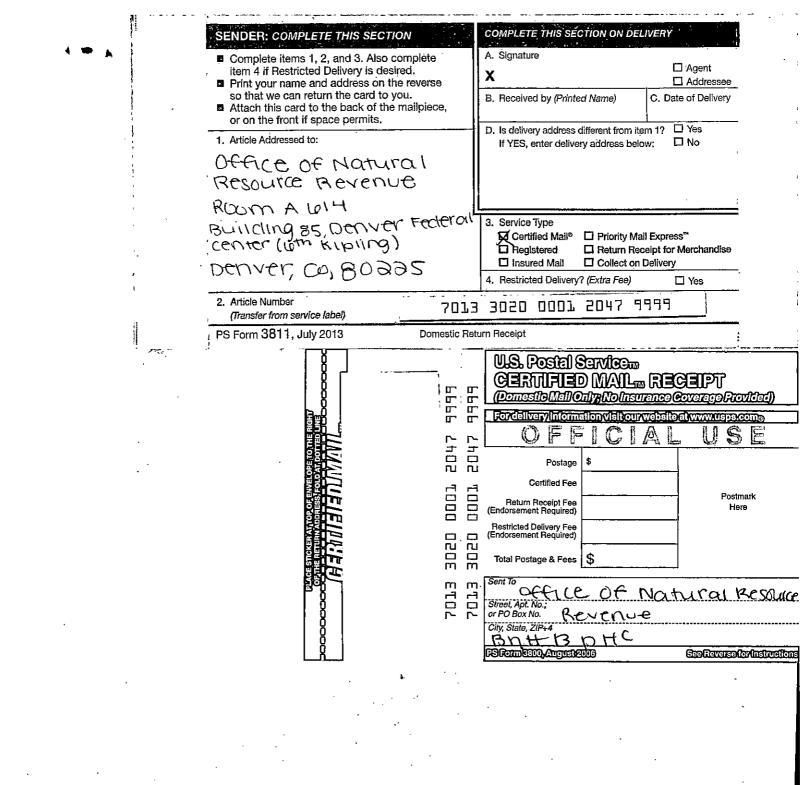
**ب** 

. ......

•

.

.



• •

. · ·

#### McMillan, Michael, EMNRD

From:	Bergen, Ashley <ashley.bergen@conocophillips.com></ashley.bergen@conocophillips.com>
Sent:	Tuesday, September 01, 2015 2:52 PM
То:	McMillan, Michael, EMNRD
Subject:	Britt B Wells No. 51,52,53,54,55 Lea Co. DHC
Attachments:	Copy of SEMU #174 Production Allocation.xls

Good Afternoon Mr. McMillan,

We will use the historical data from the analog well of our new drills, SEMU 174, to determine the production allocation for the three zones (Blinebry, Tubb and Drinkard). SEMU 174 is recently drilled targeting Blinebry, Tubb and Drinkard formations in 2007 in the same area as those that we are planning to drill in the DHC proposal. The approved allocation for SEMU 174 is

	Oil	Water	Gas
Blinebry Allocation	90%	85%	24%
Tubb Allocation	5.0%	7.5%	38%
Drinkard Allocation			
and the second	kan an sa an s Na sa an s		P P MELY

The above allocation percentage for SEMU 174 was determined by production test and calculation based on open perf distribution. The details can be found in the attached excel sheet.

Please let me know if you have any questions.

Thanks, **Ashley Bergen** Regulatory Specialist - MCBU ConocoPhillips Lower 48 3300 North A St.- Bldg 6 Midland, TX 79705-5406 T: 432.688.6938 | M: 432.640.7012 | <u>ashley.bergen@conocophillips.com</u>

### SEMU #174-Production Allocation Report

Opetator:	ConocoPhillips				
API #:	3002538105				
Surface Location:	SEC 14, R37E,T20S				
Formations completed: Blinebry, Tubb & Drinkard					
Allocation is based on production tests					

#### PRODUCTION TEST---Tubb/Drinkard stabilized test from 5/22/07 to 6/6/07

First Production---5/02/07

Date	Oil Prod	Water Prod	Gas Prod
	BBI/D	BBL/D	MCF/D
05/22/07	***** 1:-1: <b>9</b> [*#3].um	39h - P	ેટ બેજે <b>183</b> ે કે અને જ
05/23/07	1. 1. W 8 1	· · · · · · · · · · · · · · · · · · ·	ji - 183 🖓 💱 👔
05/24/07	[****];{ <b>6</b> *****}}	. 🗠 🖓 🖓 👘	·[특히값 <b>183</b> 월 한 한 한
05/25/07	477 frant <b>12</b> % 2. 2		#RATE 183
05/28/07	·~*********************	<u>-</u> 24	管理学会178世际演
05/29/07	10 A 10	元十一世 <b>/27</b> 国内型3	房 清美1784 11-1
05/31/07	949.49.8<10.5 La	en 22 - 21 - 21	1693 N#*
06/01/07	Station 8 States	* <b>* 24</b> *******	當黨為1787。
06/04/07	5¥228 <b>8</b> €238 -	36	178 👘 👘
06/06/07	.k.K.1.1974 ****	. , <b>22</b> 53 (31)	188 🖉 👘
Average	8.60	28.90	180.10

PRODUCTION TEST---Blinebry, Tubb and Drinkard (commingled) stabilized test from 6/28/07 to 7/2/07 First Production---6/23/07

Date	Oil Prod	Water Prod	Gas Prod
	BBI/D	BBL/D	MCF/D
06/28/07	್ಷಾಟ್ 90ಕ್ ಕನ್ನ	238	T H 219
06/29/07	🛛 🖅 🗖 🕺 🖓 👾	. ∕‴	<u>نې ۲۰</u> 204 کې د ۲
06/30/07	1. 55 gg z	156∵ =+ົາ⊉ະ	() # 국 축 296 👘 🥂
07/01/07	81 5 5	201 <u>, 1</u>	220
07/02/07	125	181 🖉 🖓	े 🚝 ् 243 🚍 🗂
Average	86.40	197.40	236.40

#### CALCULATION ---- of Blinebry allocation using subtraction method

Oil Prod	Water Prod	Gas Prod
BBI/D	BBL/D	MCF/D
77.80	168.50	56.30

#### CALCULATION --- % allocation per formation

	Oil Prod	Water Prod	Gas Prod
Blinebry Allocation =	90.05%	85.36%	23.82%
Tubb/Drinkard Allocation=	9.95%	14.64%	76.18%

Tubb/Drinkard allocation is based on open perf distribution:		% Allocation	Total Well % Allocation
Tubb/Drinkard net perf interval=	40 ft	100%	<b>b</b>
Tubb perf interval=	20 ft	50%	5%
Drinkard perf interval=	20 ft	50%	5%

.

	نەر مۇسۇغەنچە (مەنە <mark>ر</mark> )		
Blinebry Allocation	90%	State 1 285%	
Tubb Allocation	🤤 🖯 👘 /5:0%	7.5%	ANN 1888
Drinkrad Allocation	5.0%	7.5%	<u> 38%</u>

\*Allocation is based on production tests and Net perf intervals