1625 N French Dr., Hobbs, NM 88240 Energy Minera							xico al Reso		NE	D	Form C-101 May 27, 2004	
 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S St Francis Dr., Santa Fe, NM 87505 				Oil Con 1220 S Sant		. Franc	sis P r a	MAY 1.5.	2000 ^{it to} 5 0)(priate District Office MENDED REPORT	
APP	LICAT	IONFO	R PERMI	г то d	RILL, RE	-ENTI	ER, D	EEPE	N, PLUGBA			
Chesapeal	c Operati	ing, Inc.	¹ OperatorNam City, OK 7315	e and Addre	ess				147179		D Numb Number	F
	18496 O ertyCode	klahoma C		4-0496	⁵ Propert	vName			30-025-36	5235 AFT		
	227		Duncan	19	Topen	yrvanie					1	
Warren; T			Proposed Pool 1				D-K·	Drinka		posed Pool	2	
wanen, i	<u>uoo, Eas</u>	·			⁷ Surfac	e Loca	· · · · · ·	Dimka	۹ <u>/</u>			
UL or lot no	Section	Township	Range	Lot	Idn Feet i	from the	North/S	South line	Feet from the	East/W	estline	County
А	19	20S	39E		600'		North		500'	East		Lea –
UL or lot no	Section	Township	Range	Lot	tom Hole Loc	from the		nt From South line	Feet from the	East/W	estline	County
		<u> </u>										
¹¹ Work	Type Code		¹² Well Type Co		ditional W	ell Infe ole/Rotary	ormati		¹⁴ Lease Type Code		¹⁵ Gro	und Level Elevation
Р		0			R			8	ρ	35	527'	
¹⁶ М	fultiple	720	¹⁷ Proposed Dep 0'	oth	Drinkard	ormation		TBD	¹⁹ Contractor			²⁰ Spud Date 5/2008
Depth to Gro	undwater			Distanc	efrom nearest fre	esh water v	vell		Distance fro	omnearests	urfacew	ater
	Synthetic		ulsthick Clay [Pit Vol	umebbls	5		ing <u>Metho</u> Water X	d Brine Diesel/	'Ol-based [Gas/	
			2	¹ Propo	sed Casing	and Ce	ement	Progra	ım			
Hole S	Size	Ca	sing Size	Casın	g weight/foot		Setting D	epth	Sacks of C	Cement		Estimated TOC
12 1/4"		8 5/8"		24#		1627			850 Sxs Poz		Surfa	
7 7/8"		5 12"		17#		7750			1450 Sxs Cl	. С&н	Surfa	ice
22 December	hanranasa	d program II	Ethic application			CK anna	the data		sent productive zor			
Describe the Chesapeako A current w These pool	blowout pro e Operati vell-bore s were pr	evention prog ng, Inc. pl diagram is re-approve PC-1108,	ram, if any. Use ans to recomp also attached d by NMOCI	additionals blete to th for your Divisio vill be sul	sheets if necessa e Drinkard a · review. n Order PC-1 bmitted in ac	ry nd Tubl 108. cordanc	o forma	tions pe	er the attached p	procedure	Э.	
			given above is ti				<u></u>	OIL C	CONSERVA	TIONI	NIVIS	ION
of my knowledge and behef. I further certify that the drilling pit will be constructed according to NMOCD guidelines 🖾, a general permit 🗆, or an (attached) alternative OCD-approved plan 🗖,					OIL CONSERVATION DIVISION						****	
Printed name	Linda	Good	Linda	Gran	2	Tıtle	PET	ROLEL	HM ENGINE	R .		
Title.		Compl. Spe				-	val Date [.]	MAY 1	9 2008	Expiration	Date	
E-mail Addre		· ·						<u>. 9734</u>				
	2/2008		DI	405)767	-4275				oval Approval to ot produce Downl			
						i IS a	approve	d in Hobl	os District office a	according	to R-11	363

-												
District I				State of New Mexico					Form C-102			
1625 N. French Dr., Hobbs, NM 88240			E	Energy, Minerals & Natural Resources Department					Revised October 12, 2005			
District II 1301 W. Grand Ave	nua Artaci	• NM 88710				TIONDIVISIO		submit to	Appropri	ate District O)ffice	
District III	nue, Artesi	a, 19191 882 10					IN			e Lease - 4 Co		
1000 Rio Brazos Rd.	Aztec. NN	4 87410		12	220 South St	. Francis Dr.				e Lease - 3 Co		
District IV	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Santa Fe, N	IM 87505			1.00		opies	
1220 S. St. Francis I	Dr., Santa F	e, NM 87505							□ AMENDED REPORT			
		v	VELL LO			REAGEDEDIC	ΑΤΙΟΝΡΙ Δ	Т				
'A	PI Number			¹ Pool Code			'Pool Na					
30-025-3623	5		870	87085 Warren; Tubb, East								
Property C			0		[*] Property		' Well Number					
3002	27	Duncan	19	19						1		
'OGRID N	o.			'Operator Name						'Elevation		
147179		Chesapea	ke Operat	e Operating, Inc.					3527'			
					¹⁰ Surface	Location						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the		Feet from the	Eas	t/West line	Co	ounty	
A	19	20S	39E		600'	North	500'	East		Lea	ĺ	
<u> </u>	¹¹ Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the		Feet from the	Eas	t/West line	Co	ounty	
" Dedicated Acres	" Joint or	Infill "C	onsolidation	Code "Or	der No.							
40				PC	C-1108							

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16	``````````````````````````````````````	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to</i> <i>the best of my knowledge and belief, and that this organization either owns a</i>
	305	working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location
		proposed bolion note location of has a right to arith inty went at his location pursuant to a contract with an owner of such a mineral or working interest,
		or to a voluntary pooling agreement or a compulsory pooling order
		heretofore entered by the division
		Signature Date
		Linda Good
		Printed Name
		18 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
		¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat
		was plotted from field notes of actual surveys made by
		me or under my supervision, and that the same is true
		and correct to the best of my belief.
		Date of Survey
		-
		Signature and Seal of Professional Surveyor Please Nefer to onisinal
		I lease neter to oniginal
		plat
		Certificate Number
1	I I I	

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u>			State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATIONDIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505					Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies			
1220 S. St. Franci	is Dr., Santa F	e, NM 87505						l	AME	AMENDED REPORT	
		W	<u>ELL LC</u>	<u>OCATIO</u>	<u>N AND ACR</u>	EAGEDEDIC					· · · · · ·
	'API Number 30-025-36235			¹ Pool Code 15390 – D-K; Drinkard							
3002	Property Code 3002,27 Duncan			'Property Name					[°] Well Number 1		
'ogrid 147179	['] OGRID No. 147179 Chesapeako			'Operator Name ce Operating, Inc.					'Elevation 3527'		
L					¹⁰ Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Eas	t/West line		County
A 19 20S		39E		600'	North	500'	East		Lea		
			¹¹ Bc	ottom Ho	le Location I	f Different From	n Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Eas	t/West line		County
" Dedicated Acre	es "Joint o	l Col	nsolidation C	Code ¹⁵ Or	der No.		:				

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁵ Order No. PC-1108

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16		- \$ \$ 0 500 '	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pur suant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the drivion
			Kinda Dood 05/12/2008 Signature Date Linda Good Printed Name
			¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief
			Date of Survey Signature and Seal of Professional Surveyor Please refer rc Original plat Certificate Number

Current Wellbore Schematic



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DUNCAN 19-1

 Field:
 DK ABO

 County:
 LEA

 State:
 NEW MEXICO

 Elevation:
 GL 3,527.00
 KB 3,542.00

 KB Height:
 15.00

Location: SEC 19, 20S-39E, 600 FNL & 500 FEL

Spud Date: 5/4/2003 Initial Compl. Date: API #: 3002536235 CHK Property #: 891142 1st Prod Date: 6/6/2003 PBTD: Original Hole - 7655.0 TD: 7,750.0

Well Config - Original Hole, 5/9/2008 9 51 19 AM Schematic - Actual Well History Event recommendation set at 7,198.0ftKB on 6/6/2003 - - - - -Date 6/6/2003 Original Hole, 12 1/4, 15, 1,627 Tubing, 2 7/8, 7,198 Original Hole, 7 7/8, 1,627, 7,750 ABO, 7,400, 7,486 7,400, 7,486, 6/1/2003 PBTD, 7,655 TD, 7,750, 5/19/2003

Report Printed: 5/9/2008



Duncan #19-1 Drinkard Re-Completion Lea County, New Mexico

Location: Section 19, 20S-39E, 600 FNL & 500 FEL

Production

· · .

Casing: 5 1/2" 17# N-80 0-7,734', ID=4.892", Drift=4.767", Burst=6,280#

PBTD/TD: 7,655'/7,750'

Current Perfs: Abo 7,400'- 7,486'

Procedure

Hold Tailgate Safety meeting prior to beginning work each morning and as required for specific operations.

- 1. Prep location. Check anchors and clean area for workover.
- 2. MIRU workover rig. POH w/pump and rods. ND WH. NU BOP. POH w/ tbg.
- 3. RU wireline unit. RIH w/ gauge ring and junk basket to PBTD @ 7,655'. RIH and set CBP @ 7,200'. POH.
- 4. RIH and perforate Drinkard as follows:

Drinkard	7,000' – 7,012'	12'	2 SPF 180° Phased	24 holes
Drinkard	6,986' – 6,990'	4'	2 SPF 180° Phased	8 holes
Drinkard	6,954' – 6,980'	26'	2 SPF 180° Phased	52 holes
Drinkard	6,935' – 6,942'	7'	2 SPF 180° Phased	14 holes
Drinkard	6,922' – 6,930'	8'	2 SPF 180° Phased	16 holes
Drinkard	6,900' – 6,910'	<u> 10'</u>	2 SPF 180° Phased	20 holes
Totals		67'		134 holes

Correlate to attached log. RDMO wireline.

- 5. RU frac service and frac Drinkard perfs 6,900' 7,012' (134 holes). Frac design/pump schedule will be provided separately once finalized. Record ISIP-5-10-15 min pressures.
- 6. RIH and set CBP @ 6,833'. POH.
- 7. RIH and perforate Tubb as follows:

Tubb	6,758' – 6,766'	8'	2 SPF 180° Phased	16 holes
Tubb	6,690' – 6,710'	20'	2 SPF 180° Phased	40 holes
		28'		56 holes

8. RU frac service and frac Tubb perfs 6,690' – 6,766' (56 holes). Frac design/pump schedule will be provided separately once finalized. Record ISIP-5-10-15 min pressures.

- 9. PU and RIH with tubing and packer to 6,640' and set. Swab well to determine productivity of Tubb formation and record results. Once sand production is not a concern unset packer and TOH. LD work string.
- 10. PU bit and work string and \dagger IH to DO plug set at 6,833'. TOH.
- 11. PU and RIH with tubing and packer to 6,850' and set. Swab well to determine productivity of the Drinkard formation and record results. Once sand production is not a concern unset packer and TOH. LD work string.
- 12. PU bit and work string and TIH to DO plug set at 7,200' and clean out to PBTD @ 7,655'. Circulate hole clean. TOH.
- 13. TIH with production tubing and SN. Set seat nipple at 7,062' (below perfs). Set TAC @ 6,590'.
- 14.ND BOP. NU WH. TIH with pump and rods. Fill tubing and space out pump accordingly. Verify pump action. Place well on test. *Note: Rod design to follow this procedure.*
- 15. RDMO workover rig. Clean location.

Contacts

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> Workover Foreman Lynard Barrera Office: 575-391-1462 Cell: 505-631-4942

Production Foreman Greg Skiles Office: 575-391-1462 Cell: 575-631-1663 <u>Asset Manager</u> Kim Henderson Office: 405-879-8583 Cell: 405-312-1840

Field Engineer Doug Rubick Office: 575-391-1462 Cell: 575-441-7326