

District I
1625 N. French Drive, Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88211

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised June 10, 2003

Oil Conservation Division

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

APPLICATION TYPE

Y Single Well

N Establish Pre-Approved Pools

EXISTING WELLBORE

X Yes No

APPLICATION FOR DOWNHOLE COMMINGLING

COG OPERATING LLC

550 W. Texas, Suite 550

Midland, TX 79701

Operator

Address

M. D. SELF

5

D, Sec 6, T26S, R38E

LEA

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 229137 Property Code 006355 API No. 30-025-12449 Lease Type: X Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Wildcat; Glorieta OIL		Justis; Bilinebry-Tubb-Drinkard
Pool Code	96962		34220
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	4902 - 4991		5114 - 5325
Method of Production (Flowing or Artificial Lift)	Pumping		Pumping
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)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	34.0		35.3
Producing, Shut-In or New Zone	Producing, new zone		SI
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: 12/21 - 12/24/2005 Rates: 31 BO, 33 MCF, 164 BW	Date: Rates:	Date: 6 - 26-2005 Rates: 2 BO, 7 MCF, 14 BW
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas 94 % 83 %	Oil Gas % %	Oil Gas 6 % 17 %

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 No
Yes No

Are all produced fluids from all commingled zones compatible with each other?

Yes X No

Will commingling decrease the value of production?

Yes No X

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:

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production 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.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Phyllis A. Edwards TITLE Regulatory Analyst DATE 1/6/06

TYPE OR PRINT NAME Phyllis A. Edwards TELEPHONE NO. (432) 685-4340

E-MAIL ADDRESS pedwards@conchoresources.com

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Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-12449	² Pool Code	³ Pool Name Wildcat; Glorieta
⁴ Property Code 006355	⁵ Property Name M.D. Self	
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING LLC	
		⁶ Well Number 005
		⁹ Elevation 3025'

¹⁰ Surface Location

UL or lot no. D	Section 6	Township 26S	Range 38E	Lot Idn	Feet from the 330	North/South line North	Feet from the 330	East/West line West	County Lea
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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 the best of my knowledge and belief.</i> Signature Diane Kuykendall Printed Name Regulatory Analyst Title and E-mail Address 1/06/06 Date
				¹⁸ SURVEYOR CERTIFICATION <i>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.</i> Date of Survey Signature and Seal of Professional Surveyor: Certificate Number

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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-12449	² Pool Code 34220	³ Pool Name Justis; Blinbry-Tubb-Drinkard
⁴ Property Code 006355	⁵ Property Name M.D. Self	
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING LLC	
		⁶ Well Number 005
		⁹ Elevation 3025'

¹⁰ Surface Location

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M D SELF #5 - WILDCAT; GLORIETA PRODUCTION					
Date	Oil	Gas	Water	Choke	Notes
1/4/2006 9:42	24	23	155	64/64	
1/3/2006 9:14	6	23	162	64/64	
12/31/2005 13:22	29	56	158	64/64	
12/28/2005 8:57	29	40	155	64/64	
12/27/2005 8:57	27	41	157	64/64	
12/26/2005 17:04	34	40	155	64/64	
12/25/2005 9:46	25	31	158	64/64	
12/24/2005 14:04	29	32	163	64/64	
12/23/2005 7:38	43	54	155	64/64	
12/22/2005 8:58	31	25	167	64/64	
12/21/2005 11:57	21	21	170	64/64	
12/20/2005 9:04	10	19	165	64/64	
12/19/2005 15:27	0	0	0	64/64	dwn for repairs
12/18/2005 9:03	1	11	123	64/64	dwn pwr cable shorted to unit
12/17/2005 9:05	1	11	112	64/64	19 hr test after pmp unit chng
12/16/2005 8:38	1	3	21	64/64	dwn chng to bigger pmp unit
12/15/2005 8:58	5	11	100	64/64	
12/14/2005 12:29	35	12	105	64/64	
12/13/2005 9:14	17	11	95	64/64	
12/12/2005 15:18	11	12	97	64/64	
12/11/2005 15:17	6	12	114	64/64	
12/10/2005 15:16	4	14	60	64/64	
12/9/2005 14:30	1	4	12	64/64	dwn reset
12/8/2005 13:03	9	16	108	64/64	
12/7/2005 10:39	8	16	106	64/64	
12/7/2005 9:18	2	11	112	64/64	19 hr test after pmp unit chng
12/6/2005 15:33	9	16	109	64/64	
12/5/2005 11:04	8	16	107	64/64	
12/4/2005 12:05	8	16	107	64/64	
12/3/2005 13:25	4	14	119	64/64	
12/2/2005 15:13	3	0	31	64/64	change pmp dwn
12/1/2005 11:18	7	6	77	64/64	
11/30/2005 10:55	7	4	78	64/64	
11/29/2005 10:03	4	4	80	64/64	
11/28/2005 8:18	0	4	84	64/64	
11/27/2005 9:34	0	4	85	64/64	
11/26/2005 9:27	0	4	86	64/64	
11/25/2005 23:20	0	4	86	64/64	
11/24/2005 23:20	0	4	85	64/64	
11/23/2005 8:56	0	4	84	64/64	
11/22/2005 17:57	0	0	85	64/64	
11/21/2005 9:15	0	0	85	64/64	
11/20/2005 20:27	0	0	84	64/64	
11/19/2005 8:46	0	0	84	64/64	
11/18/2005 16:56	0	0	84	64/64	

COG Operating LLC
DV300Production Detail Report by Property
FROM 12/01/2004 THRU 11/30/2005

PAGE 1

01/06/06

(Base/Allocated Properties)

(At State Pressure Base)

O I L										G A S				B B L S	
PROD MOTH	BEG STOCK	PROD	SALES	OTH DISP	END STOCK	OIL ALLOW	PRICE BBL	GROSS VALUE	OTH DISP	MCF PROD	MCF SALES	PRESS BASE	PRICE MCF	GROSS VALUE	WATER PROD
Property: 301013-005		M.D. SELF #5 (BLINEBURY)					STATE: NM								
12/04	27	60	45	0	42	0	36.64	1,648.70	0	195	195	15.0250	5.74	1,119.51	533
01/05	42	57	45	0	54	0	41.96	1,888.33	0	186	186	15.0250	5.50	1,023.13	67
02/05	54	46	43	0	57	0	41.90	1,801.54	0	154	154	15.0250	5.56	856.66	399
03/05	57	61	48	0	70	0	47.72	2,290.60	0	171	171	15.0250	5.77	986.76	378
04/05	70	45	88	0	27	0	46.43	4,085.57	0	188	188	15.0250	6.17	1,160.78	454
05/05	27	73	56	0	44	0	41.73	2,336.99	0	196	196	15.0250	5.29	1,036.55	44
06/05	44	44	49	0	39	0	50.16	2,457.71	0	169	169	15.0250	5.70	964.09	417
07/05	39	23	0	0	62	0	n/a	0.00	0	130	130	15.0250	6.11	794.34	473
08/05	62	30	48	0	44	0	60.67	2,912.27	0	184	184	15.0250	7.10	1,305.71	416
09/05	44	21	0	0	65	0	n/a	0.00	0	146	146	15.0250	5.80	847.04	601
10/05	65	24	54	0	35	0	55.43	2,993.15	0	173	173	15.0250	5.81	1,004.29	497
11/05	35	26	35	0	26	0	51.61	1,806.21	0	77	77	15.0250	7.19	554.01	1968
Totals		566	511		565			24,221.07		1969				11,652.87	
		510		0		0			0		1969				6247
Report totals		566	511		565			24,221.07		1969				11,652.87	
		510		0		0			0		1969				6247