

DATE IN 5-6-11	SUSPENSE	ENGINEER DB	LOGGED IN	TYPE NSL	APP NO. 1112942959
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PTG-W

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



COG-227137
Dodd Fed #576
6397

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location]** **[NSP-Non-Standard Proration Unit]** **[SD-Simultaneous Dedication]**
- [DHC-Downhole Commingling]** **[CTB-Lease Commingling]** **[PLC-Pool/Lease Commingling]**
- [PC-Pool Commingling]** **[OLS - Off-Lease Storage]** **[OLM-Off-Lease Measurement]**
- [WFX-Waterflood Expansion]** **[PMX-Pressure Maintenance Expansion]**
- [SWD-Salt Water Disposal]** **[IPI-Injection Pressure Increase]**
- [EOR-Qualified Enhanced Oil Recovery Certification]** **[PPR-Positive Production Response]**

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

- [D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply INTEREST ARE THE SAME

- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[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.

Kelly J. Holly
 Print or Type Name

Signature

Permitting Tech
 Title

5-5-11
 Date

(432) 685-4384
 Phone Number

kholly@conchoresources.com
 E-mail Address

**Dodd Federal Unit #576
Eddy County, NM**

COG is requesting to drill a vertical SW/4 SE/4, 40 acre spacing
Grayburg Jackson; SR-Q-G-SA oil well
TD of approximately 5500'

Non-standard Location:
990' FSL & 2370' FEL Sec 10, T17S, R29E, Unit O

**This well had to be staked at a non-standard location due to original
location too close to an electrical line.**

The plan for this well is to complete it in the Yeso formation.
We won't know the exact perms until we drill & log it, but it will be very similar to
the G J West Coop Unit #149 which was drilled and is located 2310' FSL 2310'
FWL, Section 21, T17S, R29E, Unit K.

The G J West Coop Unit #149 completion divided the Yeso up into 3
perf/stimulation intervals:

1st interval: 5153' – 5381',
acidized w/ 2500 gals,
frac'd w/ 6014 gals 40# gel, 30,777 gals 30# gel, 56,847 gals 40# gel, 8000#
LiteProp, 74,940# 16/30 White Sand, 15,920# SiberProp 16/30 sand.

2nd interval: 4914' – 5050',
acidized w/ 1975 gals,
frac'd w/ 6002 gals 40# gel, 30,757 gals 30# gel, 47,321 gals 40# gel, 8000#
LiteProp, 74,800# 16/30 sand & 15,700# SiberProp 16/30 sand.

3rd interval: 4613' – 4814',
acidized w/ 1850 gals,
frac'd w/ 93,882 gals gel, 8019# LiteProp, 74,900# 16/30 White Sand, 16,220#
SiberProp.

**Attachment 1
Plat & Map**

**Attachment 2
Map & legend of offset wells.**

Attachment 3
Updated land plat showing that COG owns the offset acreage.
The acreage we are encroaching on is the SE/4 SW/4 of Section 10.

Interests are the same.
COG Operating LLC respectfully requests permission to have this NSL approved.

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210
DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
DISTRICT IV
11885 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised July 16, 2010
Submit to Appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015	Pool Code 28509	Pool Name Grayburg Jackson; SR-Q-G-SA
Property Code 308195	Property Name DODD FEDERAL UNIT	Well Number 576
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3589'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	10	17-S	29-E		990	SOUTH	2370	EAST	EDDY

Bottom Hole Location If Different From Surface

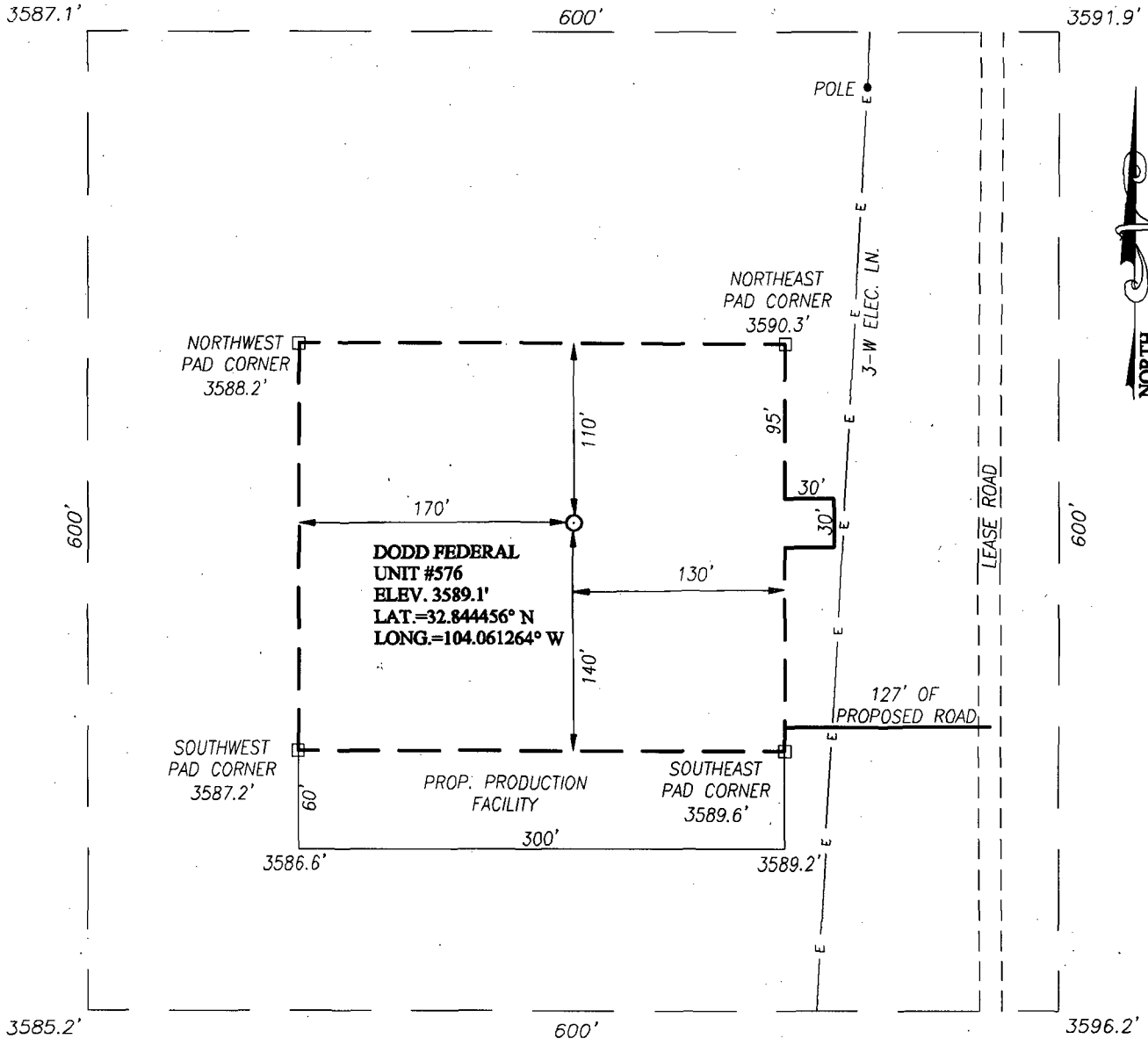
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

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

	<p>DETAIL</p> <p>3587.1' 3591.9'</p> <p>600'</p> <p>600'</p> <p>3585.2' 3596.2'</p>	<p>GEODETIC COORDINATES NAD 27 NME</p> <p>SURFACE LOCATION Y=670032.0 N X=583558.2 E</p> <p>LAT.=32.844456° N LONG.=104.061264° W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information 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 pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p> 5-2-11 Signature Date</p> <p>Kelly J. Holly Printed Name</p> <p>kholly@conchoresources.com E-mail Address</p>
	<p>SEE DETAIL</p> <p>2370'</p> <p>990'</p>	<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>APRIL 14, 2011</p> <p>Date of Survey</p> <p>Signature & Seal of Professional Surveyor:</p> <p></p> <p>Certificate Number... Ronald J. Eidson 12641 Ronald J. Eidson 3239</p> <p>LA JWSC W.O.: 11.11.0112</p>	

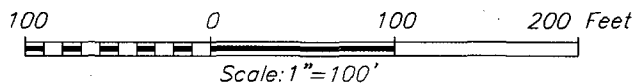
270 x 270 = 72900
330 x 330 = 108900
181,800 = 426.

SECTION 10, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #82 AND CO. RD. #214 (BARNAVAL DRAW), GO NORTHWEST ON CO. RD. #214 APPROX. 1.5 MILES. TURN RIGHT AND GO EAST APPROX. 0.5 MILES. TURN LEFT AND GO NORTH APPROX. 0.2 MILES. THE LOCATION STAKE IS APPROX. 260 FEET WEST OF ROAD.



PROVIDING SURVEYING SERVICES SINCE 1946

JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (575) 393-3117

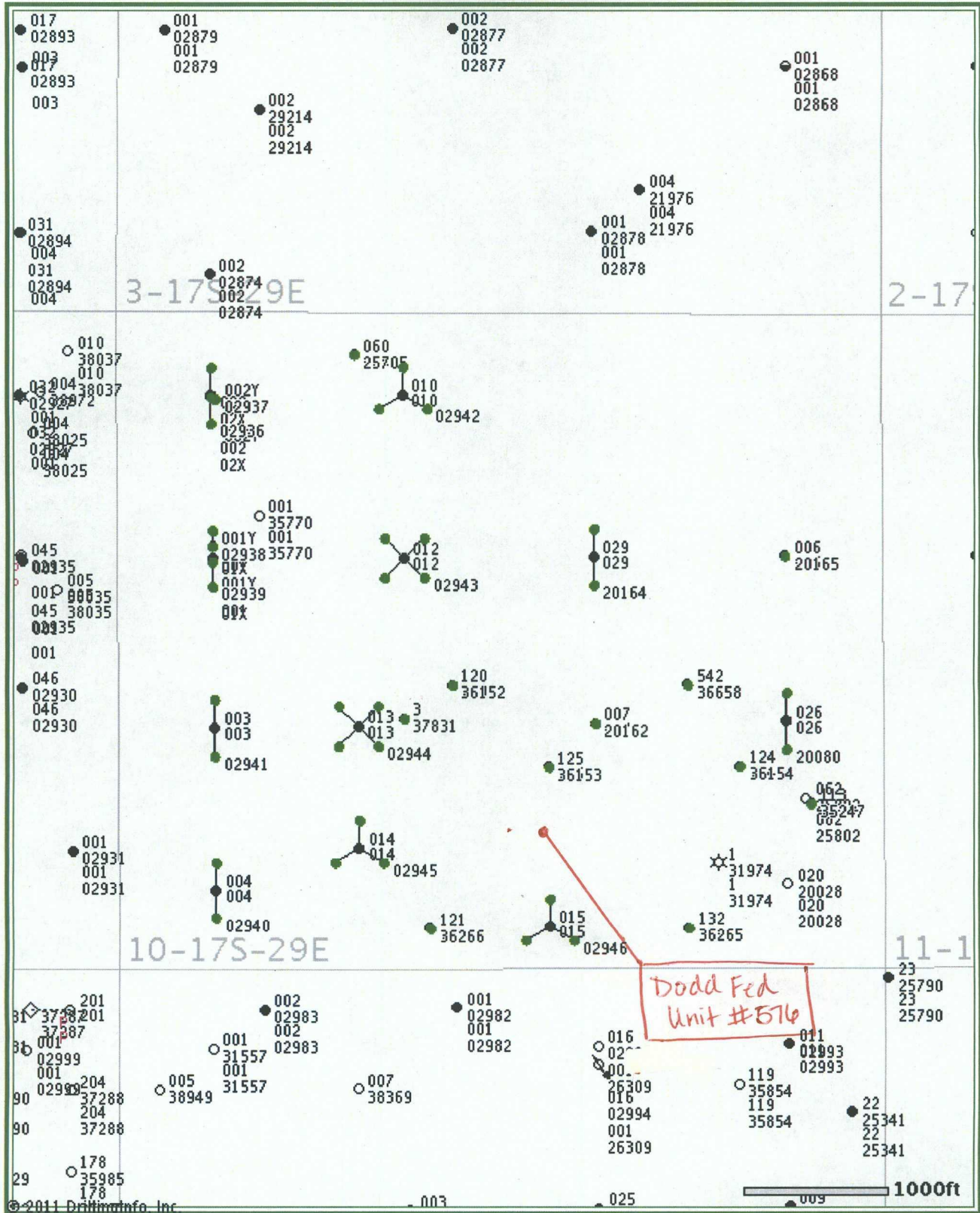
COG OPERATING, LLC			
DODD FEDERAL UNIT #576 WELL LOCATED 990 FEET FROM THE SOUTH LINE AND 2370 FEET FROM THE EAST LINE OF SECTION 10, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO			
Survey Date:	4/14/11	Sheet	1 of 1 Sheets
W.O. Number:	11.11.0112	Dr By:	LA
Date:	4/21/11	Rev 1:	N/A
Rel. W.O.:		11110112	Scale: 1"=100'

Producing Wells in Sec 10, T17S, R29E, Eddy County

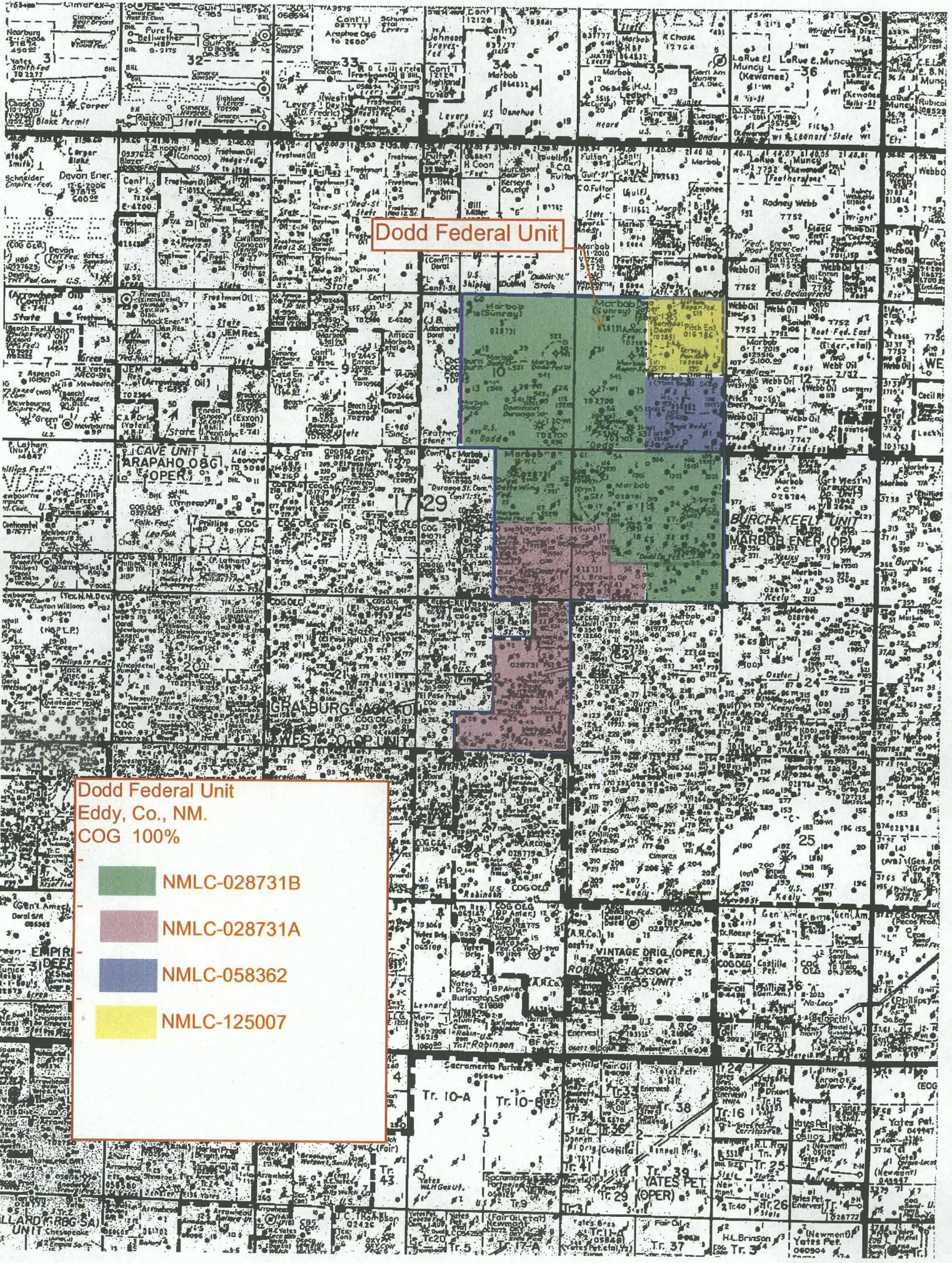
API#	Operator	Lease	Well#	County	Legal	Total Depth	Well Type	Well Status	First Prod.	Last Prod.	Avg. (BO/D)
30-015-02944	MARBOB ENERGY CORP	M DODD B	013	EDDY	S:10, T:17S, R:29E	2,478	O	Active	Jan 1967	Dec 1976	0.06
30-015-02945	MARBOB ENERGY CORP	M DODD B	014	EDDY	S:10, T:17S, R:29E	2,475	O	Active	Jan 1967	Dec 1977	0.06
30-015-02943	MARBOB ENERGY CORP	M DODD B	012	EDDY	S:10, T:17S, R:29E	2,482	O	Pumping	Jan 1967	Dec 1977	0.13
30-015-02939	COCKBURN MAGGIE SUETTA EXECUTRIX	COCKBURN FEATHERSTONE	001	EDDY	S:10, T:17S, R:29E		O	Active	Jan 1958	Dec 1964	0.42
30-015-02936	COCKBURN MAGGIE SUETTA EXECUTRIX	COCKBURN FEATHERSTONE	002	EDDY	S:10, T:17S, R:29E		O	Active	Jan 1958	Dec 1964	0.42
30-015-02937	DORAL ENERGY CORP.	FEATHERSTONE	002Y	EDDY	S:10, T:17S, R:29E	0	O	Pumping	Jan 1973	Dec 2010	0.52
30-015-02938	DORAL ENERGY CORP.	FEATHERSTONE	001Y	EDDY	S:10, T:17S, R:29E	0	O	Pumping	Jan 1973	Dec 2010	0.52
30-015-02941	DORAL ENERGY CORP.	FEATHERSTONE	003	EDDY	S:10, T:17S, R:29E	0	O	Active	Jan 1958	Dec 2010	0.52
30-015-02946	MARBOB ENERGY CORP	M DODD B	015	EDDY	S:10, T:17S, R:29E	2,456	O	Pumping	May 1958	Jan 2011	0.61
30-015-25705	MARBOB ENERGY CORP	M DODD B	060	EDDY	S:10, T:17S, R:29E	4,675	PO	Pumping	Jan 1993	Jan 2011	0.61
30-015-35247	MARBOB ENERGY CORP	DODD FEDERAL UNIT	113	EDDY	S:10, T:17S, R:29E	5,000	O	Active	Dec 2007	Jan 2011	0.61
30-015-36152	MARBOB ENERGY CORP	DODD FEDERAL UNIT	120	EDDY	S:10, T:17S, R:29E	4,480	O	Active Permit	Jul 2008	Jan 2011	0.61
30-015-36266	COG OPERATING LLC	DODD FEDERAL UNIT	121	EDDY	S:10, T:17S, R:29E	5,000	O	Active Permit	Mar 2010	Jan 2011	0.61
30-015-20080	MARBOB ENERGY CORP	M DODD B	026	EDDY	S:10, T:17S, R:29E	2,700	O	Active	Jan 1969	Apr 2002	0.63
30-015-02944	MARBOB ENERGY CORP	M DODD B	013	EDDY	S:10, T:17S, R:29E	2,478	O	Active	Jan 1958	Dec 2002	0.71
30-015-02945	MARBOB ENERGY CORP	M DODD B	014	EDDY	S:10, T:17S, R:29E	2,475	O	Active	Feb 1958	Dec 2002	0.71
30-015-02943	MARBOB ENERGY CORP	M DODD B	012	EDDY	S:10, T:17S, R:29E	2,482	O	Pumping	Jan 1958	Apr 2000	0.83
30-015-02942	SUNRAY MID CONTINENT OIL CO.	M DODD B	010	EDDY	S:10, T:17S, R:29E		O	Active	Jan 1958	Sep 1983	0.83
30-015-02942	SUNRAY MID CONTINENT OIL CO.	M DODD B FED	010	EDDY	S:10, T:17S, R:29E		O	Active	Jan 1958	Dec 1966	0.87
30-015-02943	SUNRAY MID CONTINENT OIL CO.	M DODD B FED	012	EDDY	S:10, T:17S, R:29E	2,482	O	Pumping	Jan 1958	Dec 1966	0.90
30-015-02944	SUNRAY MID CONTINENT OIL CO.	M DODD B FED	013	EDDY	S:10, T:17S, R:29E	2,478	O	Active	Jan 1958	Dec 1966	0.90
30-015-02945	SUNRAY MID CONTINENT OIL CO.	M DODD B FED	014	EDDY	S:10, T:17S, R:29E	2,475	O	Active	Feb 1958	Dec 1966	0.90
	SUNRAY MID CONTINENT				S:10, T:17S,						

30-015-02946	OIL CO.	M DODD B FED	015	EDDY	R:29E	2,456	O	Pumping	May 1958	Dec 1966	0.90
30-015-02940	DORAL ENERGY CORP.	FEATHERSTONE	004	EDDY	S:10, T:17S, R:29E	0	O	Pumping	Jan 1958	Dec 2010	0.94
30-015-20080	MARBOB ENERGY CORP	M DODD B	026	EDDY	S:10, T:17S, R:29E	2,700	O	Active	Sep 1967	Dec 1977	1.06
30-015-20164	MARBOB ENERGY CORP	M DODD B	029	EDDY	S:10, T:17S, R:29E	2,760	O	Pumping	Jan 1972	Dec 1977	1.10
30-015-20164	MARBOB ENERGY CORP	M DODD B	029	EDDY	S:10, T:17S, R:29E	2,760	O	Pumping	Jan 1971	Mar 1995	1.16
30-015-02936	MAGGIE SUETTA COCKBURN	FEATHERSTONE	002	EDDY	S:10, T:17S, R:29E		O	Active	Jan 1965	Dec 1971	4.58
30-015-36658	COG OPERATING LLC	DODD FEDERAL UNIT	542	EDDY	S:10, T:17S, R:29E	5,000	PO	Active Permit	Jul 2010	Jan 2011	5.35
30-015-02939	MAGGIE SUETTA COCKBURN	FEATHERSTONE	001	EDDY	S:10, T:17S, R:29E		O	Active	Jan 1965	Dec 1971	6.06
30-015-02946	MARBOB ENERGY CORP	M DODD B	015	EDDY	S:10, T:17S, R:29E	2,456	O	Pumping	Jan 1967	Dec 1977	10.81
30-015-02942	SUNRAY MID-CONTINENT OIL COMPANY	DODD B	010	EDDY	S:10, T:17S, R:29E		O	Active	Apr 1957	Dec 1957	15.65
30-015-36153	MARBOB ENERGY CORP	DODD FEDERAL UNIT	125	EDDY	S:10, T:17S, R:29E	5,000	O	Active Permit	Sep 2009	Jan 2011	17.55
30-015-02943	SUNRAY MID-CONTINENT OIL COMPANY	DODD B	012	EDDY	S:10, T:17S, R:29E	2,482	O	Pumping	Mar 1957	Dec 1957	22.68
30-015-36154	MARBOB ENERGY CORP	DODD FEDERAL UNIT	124	EDDY	S:10, T:17S, R:29E	5,000	O	Active Permit	Sep 2009	Jan 2011	30.74
30-015-02944	SUNRAY MID-CONTINENT OIL COMPANY	DODD B	013	EDDY	S:10, T:17S, R:29E	2,478	O	Active	Oct 1957	Dec 1957	35.06
30-015-00000	COCKBURN. BARNEY	COCKBRN. FEATH.	01X	EDDY	S:10, T:17S, R:29E		O	Active	Jan 1957	Dec 1957	37.00
30-015-00000	COCKBURN. BARNEY	COCKBRN. FEATH.	02X	EDDY	S:10, T:17S, R:29E		O	Active	Jan 1957	Dec 1957	37.00
30-015-02941	COCKBURN. BARNEY	COCKBRN. FEATH.	003	EDDY	S:10, T:17S, R:29E	0	O	Active	Jul 1957	Dec 1957	37.00
30-015-02940	COCKBURN. BARNEY	COCKBRN. FEATH.	004	EDDY	S:10, T:17S, R:29E	0	O	Pumping	Nov 1957	Dec 1957	37.00
30-015-36265	COG OPERATING LLC	DODD FEDERAL UNIT	132	EDDY	S:10, T:17S, R:29E	5,010	O	Active Permit	Oct 2010	Jan 2011	103.45
30-015-20162	MARBOB ENERGY CORP	M DODD B	007	EDDY	S:10, T:17S, R:29E	0	PI	Injection Well	Feb 1984	Feb 1984	
30-015-20165	MARBOB ENERGY CORP	M DODD B	006	EDDY	S:10, T:17S, R:29E	0	PI	Injection Well	Jul 1971	Feb 1984	
30-015-37831	COG OPERATING LLC	EMPIRE FEDERAL SWD	3	EDDY	S:10, T:17S, R:29E	9,200	U	Active Permit	Nov 2010	Jan 2011	

Producing Wells in Sec 10, T17S, R29E, Eddy County



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Dodd Federal Unit

Dodd Federal Unit
 Eddy, Co., NM.
 COG 100%

- NMLC-028731B
- NMLC-028731A
- NMLC-058362
- NMLC-125007

BURCH-KEEL UNIT
 MARBOB ENER (OP)

GRAUBURG ACK TO
 WEST COG UNIT

VINTAGE DRIG. (OP.)
 ROBINSON JACKSON

YATES PET (OP)

Tr. 10-A Tr. 10-B

Tr. 39
 YATES PET (OP)

ALLARD (RPG SA)
 UNIT

Brooks, David K., EMNRD

From: Brooks, David K., EMNRD
Sent: Thursday, June 02, 2011 10:21 AM
To: 'Kelly Holly'
Subject: Dodd Federal #576; NSL Application

This application addresses only the encroachment toward the SE/4 SW/4. The location also encroaches diagonally toward the NE/4 SW/4.

Is ownership of the NE/4 SW/4 same as for the SE/4 SW/4 and the SW/4 SE/4?

Sincerely

David Brooks

Brooks, David K., EMNRD

From: Kelly Holly [kholly@conchoresources.com]
Sent: Thursday, June 02, 2011 10:23 AM
To: Brooks, David K., EMNRD
Subject: RE: Dodd Federal #576; NSL Application

Yes, the ownership is the same.

From: Brooks, David K., EMNRD [<mailto:david.brooks@state.nm.us>]
Sent: Thursday, June 02, 2011 11:21 AM
To: Kelly Holly
Subject: Dodd Federal #576; NSL Application

This application addresses only the encroachment toward the SE/4 SW/4. The location also encroaches diagonally toward the NE/4 SW/4.

Is ownership of the NE/4 SW/4 same as for the SE/4 SW/4 and the SW/4 SE/4?

Sincerely

David Brooks