

DATE IN 10-17-12	SUSPENSE <i>NA</i>	ENGINEER DB	LOGGED IN 10-17-12	TYPE NSL	APP NO. PDKB1229150096
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



COG
McIntyre DK Fed #15

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]

6698

[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]
 Signature

Permitting Tech
 Title

10-16-12
 Date

(432) 685-4384
 Phone Number

kholly@concho.com
 E-mail Address

**McIntyre DK Federal #15
Eddy County, NM**

COG is requesting to **Directionally** drill a SE/4 SW/4 40 acre spacing
Loco Hills; Glorieta Yeso oil well
TVD of approximately 4700'

Non-standard Location:

SHL: 261' FSL & 2618' FWL Sec 17, T17S, R30E, Unit N
BHL: 330' FSL & 2250' FWL Sec 17, T17S, R30E, Unit N

**This well had to be staked at a non-standard location due to buried
pipelines too close to original location.**

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 Electra Federal #10 which was recently drilled in January 2007 and is located
765' FSL 2310' FWL, Section 10, T17S, R30E, Unit N.

The Electra Federal #10 completion divided the Yeso up into 3 perf/stimulation
intervals. At this time, we believe the Electra Federal #30 should be very similar.

Electra Federal #10 has perms from: 4920' – 5848.5' overall, with the following
breakdown:

1st interval: 5567' – 5848.5',
acidized w/ 2500 gals,
frac'd w/ 95,103 gals gel, 8321# LiteProp, & 85,970# 16/30 sand.

2nd interval: 5192.5' – 5475.5',
acidized w/ 2500 gals,
frac'd w/ 97,107 gals gel, 8215# LiteProp, & 87,106# 16/30 sand.

3rd interval: 4920' – 5107',
acidized w/ 2500 gals,
frac'd w/ 94,099 gals gel, 8448# LiteProp, & 87,526# 16/30 sand.

Attachment 1

Plat & map

Attachment 2

Map & legend of offset wells.

Attachment 3

Updated land plat showing COG Operating LLC acreage.
The acreage we are encroaching is Units B & C of Section 20.

COG Operating LLC respectfully requests permission to have this NSL approved.

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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 August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-35475	Pool Code 96718	Pool Name Loco Hills; Glorieta Yeso
Property Code	Property Name McINTYRE DK FEDERAL	Well Number 15
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3655'

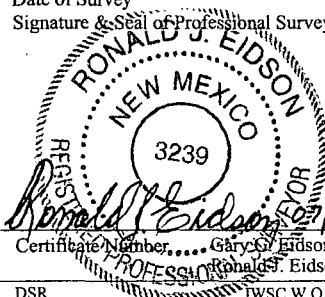
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	17	17-S	30-E		261	SOUTH	2618	WEST	EDDY

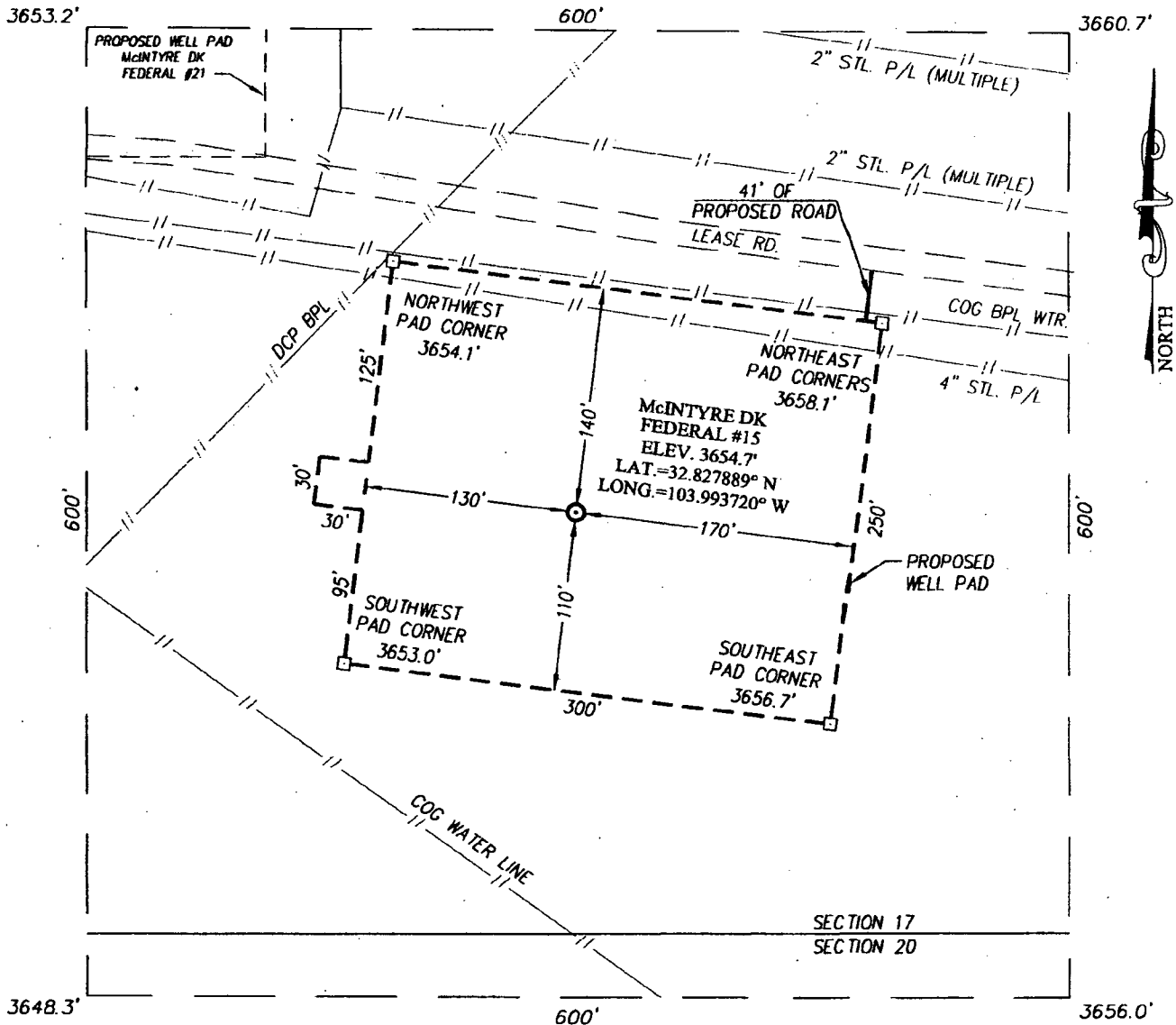
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	17	17-S	30-E		330	SOUTH	2250	WEST	EDDY
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

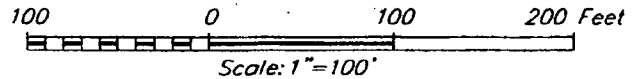
CORNER COORDINATES A) Y=666120.7 N; X=603020.8 E B) Y=666124.7 N; X=604340.8 E C) Y=664803.9 N; X=604345.3 E D) Y=664800.1 N; X=603025.3 E		GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=665064.7 N X=604321.8 E BOTTOM HOLE LOCATION Y=665132.7 N X=603953.7 E		OPERATOR CERTIFICATION I hereby certify 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.  10-16-12 Signature Date Kelly J. Holly Printed Name kholly@concho.com E-mail Address	
Estimated completed Interval: 327 FSL + 2306 FWL GRID AZ. = 280°27'38" HORZ. DIST. = 374.4' SEE DETAIL		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. July 10, 2012 Date of Survey Signature & Seal of Professional Surveyor:  Certificate Number: Gary C. Eidson 12641 Ronald J. Eidson 3239 DSR JWSC W.O.: 12.11.1018			

SECTION 17, TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M.
EDDY COUNTY **NEW MEXICO**



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #82 AND CO. RD. #217 (HAGERMAN CUTOFF) GO NORTH ON CO. RD. #217 APPROX. 0.6 MILES. TURN LEFT AND GO WEST APPROX. 0.5 MILES. THE LOCATION STAKE IS 180 FEET SOUTH OF THE LEASE ROAD.



COG OPERATING, LLC

McINTYRE DK FEDERAL #15 WELL
LOCATED 261 FEET FROM THE SOUTH LINE
AND 2618 FEET FROM THE WEST LINE OF SECTION 17,
TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (575) 393-3117 www.jwsc.biz

Survey Date: 07/10/2012	CAD Date: 8/30/12	Drawn By: AF
W.O. No.: 12.11.1440	Rev.	Rel. W.O.: 12.11.1018

Sheet 1 of 1

Producing wells in Sec 17, T17S, R30E

API#	Operator	Lease	Well#	County	Legal	Total Depth	Well Type	Well Status	First Prod.	Last Prod.	Prac. IP (MCF/D)
30-015-04182	SOUTHLAND ROYALTIES INC	GOV MCINTYRE 1 FEDERAL	001	EDDY	S:17, T:17S, R:30E	3,750	O	Pumping	Jan 1967	Dec 1977	0.00
30-015-04182	SOUTHWEST ROYALTIES INC	GOV MCINTYRE 1 FEDERAL	001	EDDY	S:17, T:17S, R:30E	3,750	O	Pumping	Feb 1947	Aug 2012	0.00
30-015-04184	MACK ENERGY CORP	MCINTYRE DK FEDERAL	001	EDDY	S:17, T:17S, R:30E	4,796	O	Active	Jan 1973	Dec 1977	0.00
30-015-04185	COG OPERATING LLC	ETZ STATE UNIT	108	EDDY	S:17, T:17S, R:30E	3,251	O	Pumping	Jan 1983	Jul 2012	0.00
30-015-04186	MACK ENERGY CORP	MCINTYRE DK FEDERAL	003	EDDY	S:17, T:17S, R:30E	4,797	O	Active	Jan 1973	Dec 1977	0.00
30-015-20547	MACK ENERGY CORP	ETZ STATE UNIT	101	EDDY	S:17, T:17S, R:30E	0	I	Plugged	Jan 1972	Dec 1977	0.00
30-015-20614	SOUTHLAND ROYALTIES INC	GOV MCINTYRE 1 FEDERAL	002	EDDY	S:17, T:17S, R:30E	3,700	O	Pumping	Apr 1972	Dec 1977	0.00
30-015-20631	SOUTHLAND ROYALTIES INC	ARCO FEDERAL	001	EDDY	S:17, T:17S, R:30E	8,652	O	Pumping	Jun 1972	Dec 1977	0.00
30-015-20632	SOUTHLAND ROYALTIES INC	ARCO FEDERAL	002	EDDY	S:17, T:17S, R:30E	3,676	O	Pumping	Jun 1972	Dec 1977	0.00
30-015-20633	SOUTHLAND ROYALTIES INC	ARCO FEDERAL	003	EDDY	S:17, T:17S, R:30E	3,663	O	Pumping	Jun 1972	Dec 1977	0.00
30-015-20708	MACK ENERGY CORP	HOLDER CB FEDERAL	001	EDDY	S:17, T:17S, R:30E	3,704	O	Pumping	Sep 1972	Dec 1977	0.00
30-015-20709	MACK ENERGY CORP	HOLDER CB FEDERAL	002	EDDY	S:17, T:17S, R:30E	3,700	O	Pumping	Sep 1972	Dec 1977	0.00
30-015-21178	COG OPERATING LLC	ETZ STATE UNIT	120	EDDY	S:17, T:17S, R:30E	0	O	Pumping	Jan 1993	Jul 2012	0.00
30-015-30371	APACHE CORP	BIRDIE FEDERAL	005	EDDY	S:17, T:17S, R:30E	4,850	O	Pumping	Nov 1998	Jul 2012	0.00
30-015-30792	APACHE CORP	RED FEDERAL	001	EDDY	S:17, T:17S, R:30E	4,740	O	Pumping	Jan 1960	Jul 2012	0.00
30-015-04232		GULF FEDERAL	001	EDDY	S:17, T:17S, R:30E		O	Active	May 1953	Dec 1975	0.00
30-015-00000	SINCLAIR OIL AND GAS CO.	MCINTYRE D FED	001	EDDY	S:17, T:17S, R:30E		G	Active	Jan 1947	Dec 1965	0.00
30-015-00000	SINCLAIR OIL AND GAS CO.	MCINTYRE D FED	003	EDDY	S:17, T:17S, R:30E		G	Active	Jan 1947	Dec 1965	0.00
30-015-00000	SINCLAIR OIL AND GAS CO	MCINTYRE D FED	009	EDDY	S:17, T:17S, R:30E		G	Active	Aug 1956	Dec 1965	0.00
30-015-00000	SINCLAIR OIL & GAS CO.	MCINTYRE D	007	EDDY	S:17, T:17S, R:30E		O	Active	Jan 1947	Mar 1958	0.00
30-015-04182	GEN AMERICAN OIL CO OF TEXAS	MCINTYRE F FED	001	EDDY	S:17, T:17S, R:30E	3,750	O	Pumping	Jan 1958	Dec 1959	0.00
30-015-04182	PREMIER OIL CO.	MCINTYRE F	001	EDDY	S:17, T:17S, R:30E	3,750	O	Pumping	Jan 1948	Dec 1948	0.00
					S:17, T:17S,						

30-015-00000	REPOLLO OIL CO.	MCINTYRE D	001	EDDY	R:30E		G	Active	Jan 1948	Dec 1957	0.00
30-015-00000	REPOLLO OIL CO.	MCINTYRE D	003	EDDY	S:17, T:17S, R:30E		G	Active	Jan 1948	Dec 1953	0.00
30-015-04182	GENERAL AMERICAN OIL COMPANY OF TEXAS	MCINTYRE F	001	EDDY	S:17, T:17S, R:30E	3,750	O	Pumping	Jan 1953	Dec 1965	0.00
30-015-20644	CBS OPERATING CORP	LOCO HILLS B FEDERAL	004	EDDY	S:17, T:17S, R:30E	3,712	O	Active	Jan 1979	Aug 2012	2.07
30-015-20643	CBS OPERATING CORP	LOCO HILLS B FEDERAL	003	EDDY	S:17, T:17S, R:30E	3,638	O	Pumping	Jan 1979	Aug 2012	3.46
30-015-20547	MACK ENERGY CORP	ETZ STATE UNIT	101	EDDY	S:17, T:17S, R:30E	0	I	Plugged	Jan 1979	Oct 1989	5.14
30-015-20749	COG OPERATING LLC	MCINTYRE DK FEDERAL	005	EDDY	S:17, T:17S, R:30E	4,300	O	Pumping	Jan 1993	Jul 2011	5.93
30-015-20749		MCINTYRE	005	EDDY	S:17, T:17S, R:30E	4,300	O	Pumping	Jan 1993	Dec 1993	5.93
30-015-00000	ATLANTIC RICHFIELD COMPANY	WD MCINTYRE D TRACT 1	009	EDDY	S:17, T:17S, R:30E		G	Active	Jan 1966	Dec 1971	7.21
30-015-20598	COG OPERATING LLC	ETZ STATE UNIT	100	EDDY	S:17, T:17S, R:30E	3,915	O	Pumping	Jan 1979	Jul 2012	7.68
30-015-00000		MCINTYRE D	003	EDDY	S:17, T:17S, R:30E		G	Active	Nov 1974	Dec 1977	8.06
30-015-27476	COG OPERATING LLC	MCINTYRE DK FEDERAL	007	EDDY	S:17, T:17S, R:30E	5,113	O	Pumping	Nov 1997	May 2012	8.42
30-015-20972	COG OPERATING LLC	MCINTYRE DK FEDERAL	006	EDDY	S:17, T:17S, R:30E	4,329	O	Pumping	Jan 1993	Jul 2012	11.39
30-015-20972		MCINTYRE	006	EDDY	S:17, T:17S, R:30E	4,329	O	Pumping	Jan 1993	Dec 1993	11.39
30-015-00000	ATLANTIC RICHFIELD COMPANY	WD MCINTYRE D TRACT 1	001	EDDY	S:17, T:17S, R:30E		G	Active	Jan 1966	Dec 1971	12.43
30-015-20632	SOUTHWEST ROYALTIES INC	ARCO FEDERAL	002	EDDY	S:17, T:17S, R:30E	3,676	O	Pumping	Jan 1979	Aug 2012	14.00
30-015-00000		MCINTYRE D	003	EDDY	S:17, T:17S, R:30E		G	Active	Jan 1979	Sep 1989	16.54
30-015-31892	COG OPERATING LLC	HOLDER CB FEDERAL	7	EDDY	S:17, T:17S, R:30E	4,770	O	Pumping	Jan 2002	Jul 2012	17.86
30-015-34537	COG OPERATING LLC	MCINTYRE DK FEDERAL	14	EDDY	S:17, T:17S, R:30E	5,108	O	Active Permit	Jun 2006	Jul 2012	19.13
30-015-00000	ATLANTIC RICHFIELD COMPANY	WD MCINTYRE D TRACT 1	003	EDDY	S:17, T:17S, R:30E		G	Active	Jan 1969	Dec 1971	19.89
30-015-27472	COG OPERATING LLC	MCINTYRE DK FEDERAL	008	EDDY	S:17, T:17S, R:30E	5,100	O	Pumping	Dec 1997	Mar 2012	19.97
30-015-04184	MACK ENERGY CORP	MCINTYRE DK FEDERAL	001	EDDY	S:17, T:17S, R:30E	4,796	O	Active	Jan 1979	May 1997	25.00
30-015-31891	COG OPERATING LLC	HOLDER CB FEDERAL	006	EDDY	S:17, T:17S, R:30E	6,211	O	Pumping	Jun 2006	Jul 2012	25.16
30-015-20631	SOUTHWEST ROYALTIES INC	ARCO FEDERAL	001	EDDY	S:17, T:17S, R:30E	8,652	O	Pumping	Jan 1979	Aug 2012	28.04
30-015-20709	COG OPERATING LLC	HOLDER CB FEDERAL	002	EDDY	S:17, T:17S, R:30E	3,700	O	Pumping	Jan 1979	Jul 2012	30.18

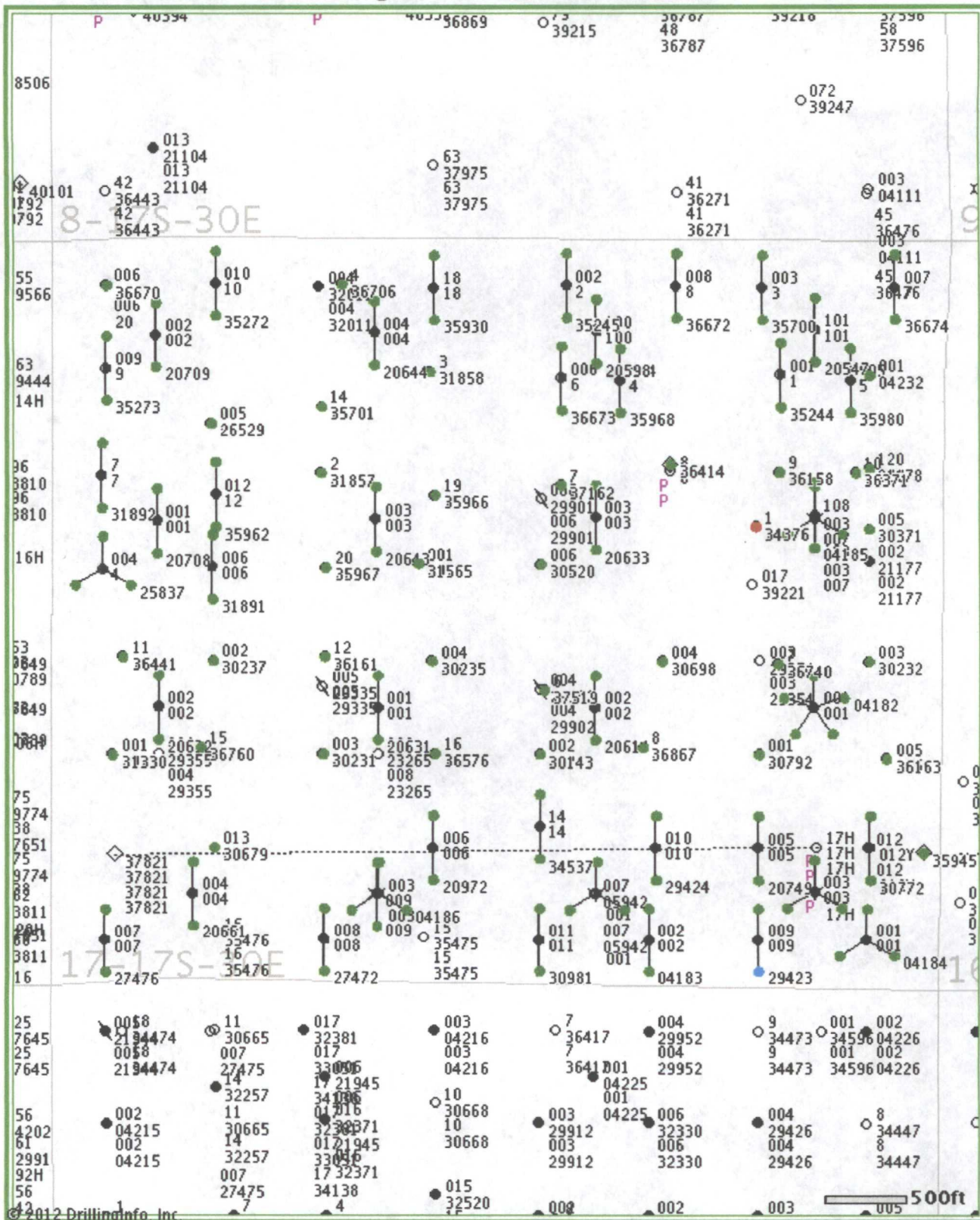
30-015-04183	COG OPERATING LLC	MCINTYRE DK FEDERAL	002	EDDY	S:17, T:17S, R:30E	0	O	Active	Jan 1979	Jul 2012	30.36
30-015-27472	MACK ENERGY CORP	MCINTYRE DK FEDERAL	008	EDDY	S:17, T:17S, R:30E	5,100	O	Pumping	Dec 1993	Nov 1997	33.26
30-015-04183	MACK ENERGY CORP	MCINTYRE DK FEDERAL	002	EDDY	S:17, T:17S, R:30E	0	O	Active	Jan 1972	Dec 1977	34.34
30-015-29423	COG OPERATING LLC	MCINTYRE DK FEDERAL	009	EDDY	S:17, T:17S, R:30E	4,810	O	Pumping	Dec 1997	Jul 2012	41.35
30-015-20708	COG OPERATING LLC	HOLDER CB FEDERAL	001	EDDY	S:17, T:17S, R:30E	3,704	O	Pumping	Jan 1979	Jul 2012	41.64
30-015-31858	COG OPERATING LLC	POLARIS B FEDERAL	3	EDDY	S:17, T:17S, R:30E	6,013	O	Pumping	Feb 2002	Jul 2012	41.65
30-015-27476	MACK ENERGY CORP	MCINTYRE DK FEDERAL	007	EDDY	S:17, T:17S, R:30E	5,113	O	Pumping	Dec 1993	Oct 1997	43.81
30-015-30772	COG OPERATING LLC	MCINTYRE DK FEDERAL	012Y	EDDY	S:17, T:17S, R:30E	4,750	O	Pumping	Sep 1999	Jan 2012	45.39
30-015-04186	MACK ENERGY CORP	MCINTYRE DK FEDERAL	003	EDDY	S:17, T:17S, R:30E	4,797	O	Active	Jan 1979	Apr 1997	50.14
30-015-20633	SOUTHWEST ROYALTIES INC	ARCO FEDERAL	003	EDDY	S:17, T:17S, R:30E	3,663	O	Pumping	Jan 1979	Aug 2012	51.36
30-015-20661	COG OPERATING LLC	MCINTYRE DK FEDERAL	004	EDDY	S:17, T:17S, R:30E	4,263	O	Pumping	Jan 1979	Oct 2011	52.54
30-015-04186	COG OPERATING LLC	MCINTYRE DK FEDERAL	003	EDDY	S:17, T:17S, R:30E	4,797	O	Active	Dec 1997	Jul 2012	54.58
30-015-30698	APACHE CORP	RED FEDERAL	004	EDDY	S:17, T:17S, R:30E	4,765	O	Pumping	Dec 1999	Jul 2012	55.32
30-015-35273	COG OPERATING LLC	HOLDER CB FEDERAL	009	EDDY	S:17, T:17S, R:30E	6,030	O	Active Permit	Aug 2007	Jul 2012	56.43
30-015-31857	COG OPERATING LLC	POLARIS B FEDERAL	2	EDDY	S:17, T:17S, R:30E	4,715	O	Pumping	Aug 2001	Jul 2012	60.70
30-015-31330	APACHE CORP	BIRDIE FEDERAL	001	EDDY	S:17, T:17S, R:30E	4,772	O	Pumping	Oct 2000	Jul 2012	61.53
30-015-30679	COG OPERATING LLC	MCINTYRE DK FEDERAL	013	EDDY	S:17, T:17S, R:30E	4,668	O	Pumping	Feb 2000	Jul 2012	69.68
30-015-26529	COG OPERATING LLC	HOLDER CB FEDERAL	005	EDDY	S:17, T:17S, R:30E	4,700	PO	Pumping	Feb 1991	Jul 2012	70.26
30-015-34537	COG OPERATING LLC	MCINTYRE DK FEDERAL	14	EDDY	S:17, T:17S, R:30E	5,108	O	Active Permit	Jun 2006	Jul 2012	77.10
30-015-04184	COG OPERATING LLC	MCINTYRE DK FEDERAL	001	EDDY	S:17, T:17S, R:30E	4,796	O	Active	Dec 1997	Jul 2012	82.35
30-015-30981	COG OPERATING LLC	MCINTYRE DK FEDERAL	011	EDDY	S:17, T:17S, R:30E	4,746	O	Pumping	Feb 2006	Jul 2012	82.58
30-015-35962	COG OPERATING LLC	HOLDER CB FEDERAL	012	EDDY	S:17, T:17S, R:30E	5,860	O	Active Permit	Apr 2008	Jul 2012	83.00
30-015-30981	COG OPERATING LLC	MCINTYRE DK FEDERAL	011	EDDY	S:17, T:17S, R:30E	4,746	O	Pumping	May 2000	Jul 2012	89.33
30-015-25837	COG OPERATING LLC	HOLDER CB FEDERAL	004	EDDY	S:17, T:17S, R:30E	5,850	O	Pumping	Dec 2009	Jul 2012	91.77
30-015-20644	CBS OPERATING CORP	LOCO HILLS B FEDERAL	004	EDDY	S:17, T:17S, R:30E	3,712	O	Active	Jun 1972	Dec 1977	94.06

30-015-36576	APACHE CORP	BIRDIE FEDERAL	16	EDDY	S:17, T:17S, R:30E	5,900	O	Active Permit	Nov 2008	Jul 2012	96.74
30-015-25837	COG OPERATING LLC	HOLDER CB FEDERAL	004	EDDY	S:17, T:17S, R:30E	5,850	O	Pumping	Jan 1988	Nov 2009	99.59
30-015-30772	COG OPERATING LLC	MCINTYRE DK FEDERAL	012Y	EDDY	S:17, T:17S, R:30E	4,750	O	Pumping	Apr 2006	Jan 2012	101.23
30-015-30235	APACHE CORP	BIRDIE FEDERAL	004	EDDY	S:17, T:17S, R:30E	4,735	O	Pumping	Jul 1999	Jul 2012	105.61
30-015-30520	APACHE CORP	BIRDIE FEDERAL	006	EDDY	S:17, T:17S, R:30E	4,729	O	Pumping	Jul 1999	Jul 2012	105.61
30-015-29424	COG OPERATING LLC	MCINTYRE DK FEDERAL	010	EDDY	S:17, T:17S, R:30E	4,761	O	Pumping	Dec 1997	Mar 2012	108.45
30-015-30232	APACHE CORP	RED FEDERAL	003	EDDY	S:17, T:17S, R:30E	4,821	O	Pumping	Oct 1998	Jul 2012	111.10
30-015-20598	MACK ENERGY CORP	ETZ STATE UNIT	100	EDDY	S:17, T:17S, R:30E	3,915	O	Pumping	Jun 1972	Dec 1977	113.58
30-015-30237	APACHE CORP	BIRDIE FEDERAL	002	EDDY	S:17, T:17S, R:30E	4,723	O	Pumping	Aug 1998	Jul 2012	121.13
30-015-35980	COG OPERATING LLC	CADD0 FEDERAL	005	EDDY	S:17, T:17S, R:30E	5,906	O	Active Permit	Sep 2008	Jul 2012	122.26
30-015-35244	COG OPERATING LLC	CADD0 FEDERAL	001	EDDY	S:17, T:17S, R:30E	6,016	O	Active Permit	Nov 2008	Jul 2012	122.45
30-015-37162	APACHE CORP	BIRDIE FEDERAL	7	EDDY	S:17, T:17S, R:30E	5,994	O	Active Permit	Jun 2011	Jul 2012	123.03
30-015-20614	SOUTHWEST ROYALTIES INC	GOV MCINTYRE 1 FEDERAL	002	EDDY	S:17, T:17S, R:30E	3,700	O	Pumping	Jan 1979	Aug 2012	127.54
30-015-31891	COG OPERATING LLC	HOLDER CB FEDERAL	006	EDDY	S:17, T:17S, R:30E	6,211	O	Pumping	Oct 2001	Jun 2006	128.40
30-015-29423	COG OPERATING LLC	MCINTYRE DK FEDERAL	009	EDDY	S:17, T:17S, R:30E	4,810	O	Pumping	Apr 2006	Jul 2012	129.61
30-015-34376	APACHE CORP	GOLDFISH 17 FEDERAL	1	EDDY	S:17, T:17S, R:30E	11,250	G	Active Permit	Jun 2006	Jul 2012	141.48
30-015-36760	APACHE CORP	BIRDIE FEDERAL	15	EDDY	S:17, T:17S, R:30E	6,000	O	Active Permit	Mar 2009	Jul 2012	150.07
30-015-36672	COG OPERATING LLC	CADD0 FEDERAL	008	EDDY	S:17, T:17S, R:30E	5,925	O	Active Permit	Apr 2010	Jul 2012	152.23
30-015-20643	CBS OPERATING CORP	LOCO HILLS B FEDERAL	003	EDDY	S:17, T:17S, R:30E	3,638	O	Pumping	May 1972	Dec 1977	154.30
30-015-35701	COG OPERATING LLC	POLARIS B FEDERAL	14	EDDY	S:17, T:17S, R:30E	5,997	O	Active Permit	Apr 2008	Jul 2012	159.48
30-015-31565	COG OPERATING LLC	POLARIS B FEDERAL	001	EDDY	S:17, T:17S, R:30E	4,740	PO	Pumping	Mar 2001	Jul 2012	160.23
30-015-35930	COG OPERATING LLC	POLARIS B FEDERAL	18	EDDY	S:17, T:17S, R:30E	5,875	O	Active Permit	Jun 2008	Jul 2012	174.87
30-015-29424	COG OPERATING LLC	MCINTYRE DK FEDERAL	010	EDDY	S:17, T:17S, R:30E	4,761	O	Pumping	Oct 2005	Mar 2012	183.93
30-015-36371	APACHE CORP	BIRDIE FEDERAL	10	EDDY	S:17, T:17S, R:30E	5,868	O	Active Permit	Sep 2008	Jul 2012	188.55
30-015-04185	MACK ENERGY CORP	ETZ STATE UNIT	108	EDDY	S:17, T:17S, R:30E	3,251	O	Pumping	Feb 1973	Dec 1973	191.87

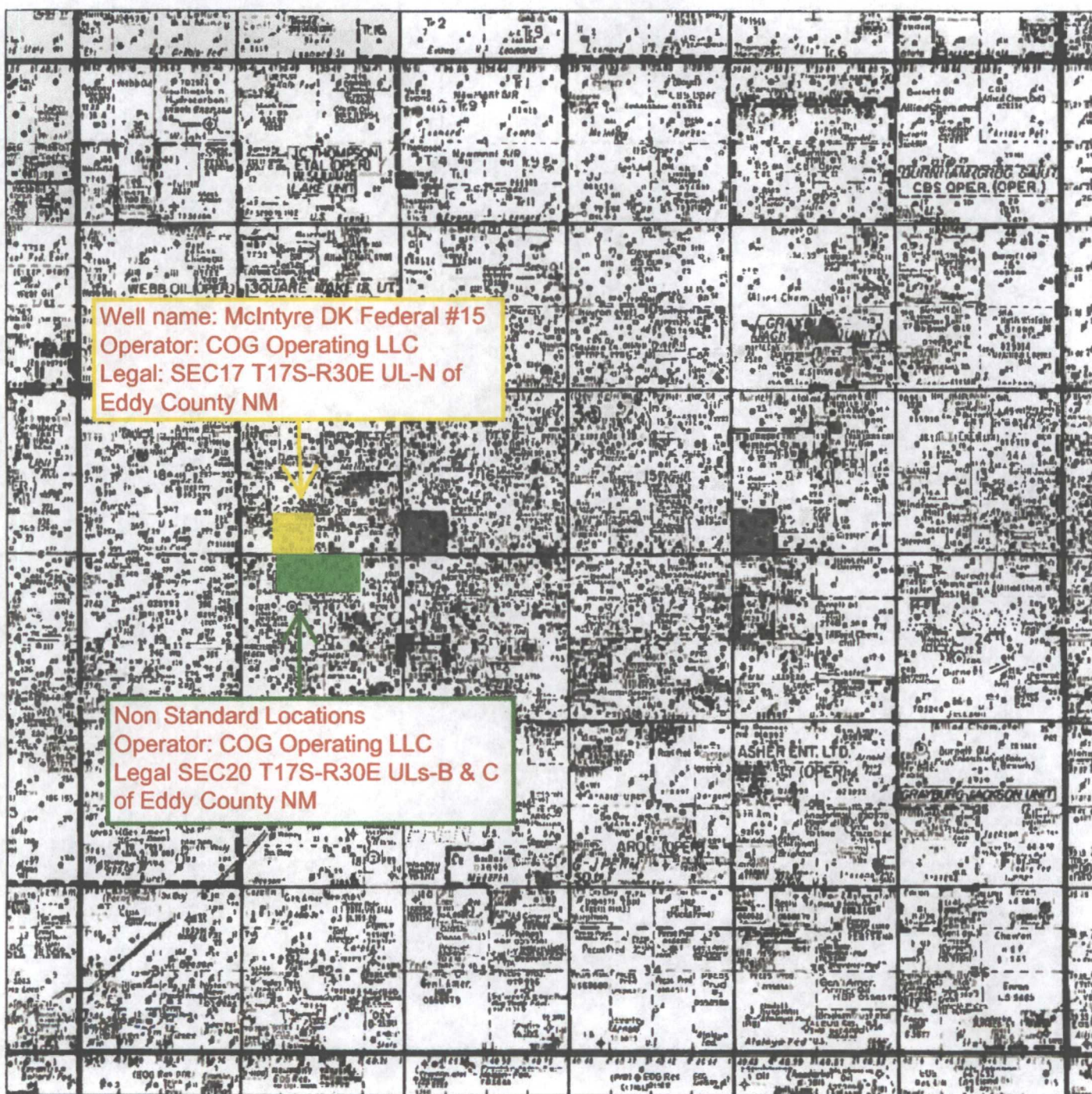
30-015-35968	COG OPERATING LLC	CADDO FEDERAL	004	EDDY	S:17, T:17S, R:30E	5,924	O	Active Permit	Apr 2008	Jul 2012	196.74
30-015-36161	APACHE CORP	BIRDIE FEDERAL	12	EDDY	S:17, T:17S, R:30E	5,907	O	Active Permit	May 2008	Jul 2012	198.77
30-015-35967	COG OPERATING LLC	POLARIS B FEDERAL	20	EDDY	S:17, T:17S, R:30E	5,867	O	Active Permit	May 2008	Jul 2012	204.73
30-015-30143	APACHE CORP	RED FEDERAL	002	EDDY	S:17, T:17S, R:30E	4,815	O	Pumping	May 1998	Jul 2012	209.20
30-015-35700	COG OPERATING LLC	CADDO FEDERAL	003	EDDY	S:17, T:17S, R:30E	5,855	O	Active Permit	Oct 2007	Jul 2012	217.67
30-015-35945	COG OPERATING LLC	JUNIPER STATE	005	EDDY	S:17, T:17S, R:30E	5,850	O	Active Permit	Feb 2008	Jul 2012	218.87
30-015-35966	COG OPERATING LLC	POLARIS B FEDERAL	19	EDDY	S:17, T:17S, R:30E	5,851	O	Active Permit	Jul 2008	Jul 2012	226.32
30-015-30231	APACHE CORP	BIRDIE FEDERAL	003	EDDY	S:17, T:17S, R:30E	4,900	O	Pumping	Jun 1998	Jul 2012	239.58
30-015-36670	COG OPERATING LLC	HOLDER CB FEDERAL	20	EDDY	S:17, T:17S, R:30E	5,920	O	Active Permit	Jun 2009	Jul 2012	245.03
30-015-36441	APACHE CORP	BIRDIE FEDERAL	11	EDDY	S:17, T:17S, R:30E	6,000	O	Active Permit	Nov 2008	Jul 2012	246.26
30-015-36158	APACHE CORP	BIRDIE FEDERAL	9	EDDY	S:17, T:17S, R:30E	5,938	O	Active Permit	Aug 2008	Jul 2012	250.13
30-015-35272	COG OPERATING LLC	HOLDER CB FEDERAL	010	EDDY	S:17, T:17S, R:30E	6,015	O	Active Permit	Dec 2007	Jul 2012	252.00
30-015-36740	APACHE CORP	RED FEDERAL	7	EDDY	S:17, T:17S, R:30E	6,000	O	Active Permit	Feb 2009	Jul 2012	266.19
30-015-36163	APACHE CORP	RED FEDERAL	005	EDDY	S:17, T:17S, R:30E	5,930	O	Active Permit	Jun 2008	Jul 2012	269.29
30-015-35245	COG OPERATING LLC	CADDO FEDERAL	002	EDDY	S:17, T:17S, R:30E	6,030	O	Active	May 2007	Jul 2012	284.63
30-015-36674	COG OPERATING LLC	CADDO FEDERAL	007	EDDY	S:17, T:17S, R:30E	5,929	O	Active Permit	Aug 2009	Jul 2012	306.17
30-015-37519	APACHE CORP	RED FEDERAL	6	EDDY	S:17, T:17S, R:30E	6,000	O	Active Permit	Apr 2010	Jul 2012	314.87
30-015-36414	APACHE CORP	BIRDIE FEDERAL	8	EDDY	S:17, T:17S, R:30E	6,000	O	Active Permit	Feb 2009	Jul 2012	364.23
30-015-36706	COG OPERATING LLC	POLARIS B FEDERAL	4	EDDY	S:17, T:17S, R:30E	5,926	O	Active Permit	Mar 2009	Jul 2012	370.20
30-015-36673	COG OPERATING LLC	CADDO FEDERAL	006	EDDY	S:17, T:17S, R:30E	5,920	O	Active Permit	Jun 2009	Mar 2012	397.52
30-015-36867	APACHE CORP	RED FEDERAL	8	EDDY	S:17, T:17S, R:30E	5,930	O	Active Permit	Apr 2010	Jul 2012	406.19
30-015-20661	MACK ENERGY CORP	MCINTYRE DK FEDERAL	004	EDDY	S:17, T:17S, R:30E	4,263	O	Pumping	Jul 1972	Dec 1977	636.06
30-015-35930	COG OPERATING LLC	POLARIS B FEDERAL	18	EDDY	S:17, T:17S, R:30E	5,875	O	Active Permit	Jun 2008	Jun 2008	
30-015-35244	COG OPERATING LLC	CADDO FEDERAL	001	EDDY	S:17, T:17S, R:30E	6,016	O	Active Permit	Feb 2012	Feb 2012	
30-015-35245	COG OPERATING LLC	CADDO FEDERAL	002	EDDY	S:17, T:17S, R:30E	6,030	O	Active	Feb 2012	Feb 2012	

30-015-35700	COG OPERATING LLC	CADDO FEDERAL	003	EDDY	S:17, T:17S, R:30E	5,855	O	Active Permit	Feb 2012	Feb 2012	
30-015-35968	COG OPERATING LLC	CADDO FEDERAL	004	EDDY	S:17, T:17S, R:30E	5,924	O	Active Permit	Feb 2012	Feb 2012	
30-015-35980	COG OPERATING LLC	CADDO FEDERAL	005	EDDY	S:17, T:17S, R:30E	5,906	O	Active Permit	Feb 2012	Feb 2012	
30-015-36673	COG OPERATING LLC	CADDO FEDERAL	006	EDDY	S:17, T:17S, R:30E	5,920	O	Active Permit	Feb 2012	Feb 2012	
30-015-36674	COG OPERATING LLC	CADDO FEDERAL	007	EDDY	S:17, T:17S, R:30E	5,929	O	Active Permit	Feb 2012	Feb 2012	
30-015-36672	COG OPERATING LLC	CADDO FEDERAL	008	EDDY	S:17, T:17S, R:30E	5,925	O	Active Permit	Feb 2012	Feb 2012	
30-015-25837	COG OPERATING LLC	HOLDER CB FEDERAL	004	EDDY	S:17, T:17S, R:30E	5,850	O	Pumping	Feb 2012	Feb 2012	
30-015-31892	COG OPERATING LLC	HOLDER CB FEDERAL	7	EDDY	S:17, T:17S, R:30E	4,770	O	Pumping	Feb 2012	Feb 2012	
30-015-35273	COG OPERATING LLC	HOLDER CB FEDERAL	009	EDDY	S:17, T:17S, R:30E	6,030	O	Active Permit	Feb 2012	Feb 2012	
30-015-35272	COG OPERATING LLC	HOLDER CB FEDERAL	010	EDDY	S:17, T:17S, R:30E	6,015	O	Active Permit	Feb 2012	Feb 2012	
30-015-35962	COG OPERATING LLC	HOLDER CB FEDERAL	012	EDDY	S:17, T:17S, R:30E	5,860	O	Active Permit	Feb 2012	Feb 2012	

Producing wells in Sec 17, T17S, R30E



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COG Operating LLC

Eddy County, NM (NAN27 NME)

McIntyre DK Federal #15

OH

Plan #1 7-7/8" Hole

Surface: 261' FSL, 2618' FWL, Sec 17, T17S, R30E, Unit N

Top of Paddock @ 4210' TVD, 49' North of Surface, 312 West of Surface

BHL: 340' FSL, 2250' FWL, Sec 17, T17S, R30E, Unit N

Standard Planning Report

10 August, 2012



Scientific Drilling



Scientific Drilling International, Inc.
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #15
Company:	COG Operating LLC	TVD Reference:	GL @ 3655.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3655.00usft
Site:	McIntyre DK Federal	North Reference:	Grid
Well:	#15	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 7-7/8" Hole		

Project:	Eddy County, NM (NAN27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		Using geodetic scale factor

Site:	McIntyre DK Federal			
Site Position:		Northing:	665,423.90 usft	Latitude: 32° 49' 43.964 N
From:	Map	Easting:	604,001.80 usft	Longitude: 103° 59' 41.127 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence: 0.18 °

Well:	#15			
Well Position	+N-S	-359.23 usft	Northing:	665,064.70 usft
	+E-W	320.03 usft	Easting:	604,321.80 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:	Ground Level: 3,655.00 usft

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/10/12	7.69	60.64	48,816

Design:	Plan #1 7-7/8" Hole			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	281.96

Plan Sections									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,631.86	6.64	281.96	1,631.12	3.98	-18.78	2.00	2.00	-23.51	281.96
4,721.45	6.64	281.96	4,700.00	78.01	-368.13	0.00	0.00	0.00	0.00 PBHL-McIntyre #15



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #15
Company:	COG Operating LLC	TVD Reference:	GL @ 3655.00usft
Project:	Eddy County, NM (NAN27-NME)	MD Reference:	GL @ 3655.00usft
Site:	McIntyre DK Federal	North Reference:	Grid
Well:	#15	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 7-7/8" Hole		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8 5/8"									
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start DLS 2.00 TFO 281.96									
1,400.00	2.00	281.96	1,399.98	0.36	-1.71	1.75	2.00	2.00	0.00
1,500.00	4.00	281.96	1,499.84	1.45	-6.83	6.98	2.00	2.00	0.00
1,600.00	6.00	281.96	1,599.45	3.25	-15.35	15.69	2.00	2.00	0.00
1,631.86	6.64	281.96	1,631.12	3.98	-18.78	19.20	2.00	2.00	0.00
Start 3089.59 hold at 1631.86 MD									
1,700.00	6.64	281.96	1,698.80	5.61	-26.49	27.08	0.00	0.00	0.00
1,800.00	6.64	281.96	1,798.13	8.01	-37.79	38.63	0.00	0.00	0.00
1,900.00	6.64	281.96	1,897.46	10.40	-49.10	50.19	0.00	0.00	0.00
2,000.00	6.64	281.96	1,996.79	12.80	-60.41	61.75	0.00	0.00	0.00
2,100.00	6.64	281.96	2,096.12	15.20	-71.72	73.31	0.00	0.00	0.00
2,200.00	6.64	281.96	2,195.45	17.59	-83.02	84.87	0.00	0.00	0.00
2,300.00	6.64	281.96	2,294.78	19.99	-94.33	96.43	0.00	0.00	0.00
2,400.00	6.64	281.96	2,394.11	22.38	-105.64	107.98	0.00	0.00	0.00
2,500.00	6.64	281.96	2,493.44	24.78	-116.95	119.54	0.00	0.00	0.00
2,600.00	6.64	281.96	2,592.77	27.18	-128.25	131.10	0.00	0.00	0.00
2,700.00	6.64	281.96	2,692.10	29.57	-139.56	142.66	0.00	0.00	0.00
2,800.00	6.64	281.96	2,791.43	31.97	-150.87	154.22	0.00	0.00	0.00
2,900.00	6.64	281.96	2,890.76	34.36	-162.17	165.77	0.00	0.00	0.00
3,000.00	6.64	281.96	2,990.09	36.76	-173.48	177.33	0.00	0.00	0.00
3,100.00	6.64	281.96	3,089.42	39.16	-184.79	188.89	0.00	0.00	0.00
3,200.00	6.64	281.96	3,188.75	41.55	-196.10	200.45	0.00	0.00	0.00
3,300.00	6.64	281.96	3,288.08	43.95	-207.40	212.01	0.00	0.00	0.00
3,400.00	6.64	281.96	3,387.41	46.34	-218.71	223.57	0.00	0.00	0.00
3,500.00	6.64	281.96	3,486.74	48.74	-230.02	235.12	0.00	0.00	0.00
3,600.00	6.64	281.96	3,586.07	51.14	-241.32	246.68	0.00	0.00	0.00
3,700.00	6.64	281.96	3,685.40	53.53	-252.63	258.24	0.00	0.00	0.00
3,800.00	6.64	281.96	3,784.73	55.93	-263.94	269.80	0.00	0.00	0.00
3,900.00	6.64	281.96	3,884.06	58.32	-275.25	281.36	0.00	0.00	0.00
4,000.00	6.64	281.96	3,983.39	60.72	-286.55	292.92	0.00	0.00	0.00
4,100.00	6.64	281.96	4,082.72	63.12	-297.86	304.47	0.00	0.00	0.00
4,200.00	6.64	281.96	4,182.05	65.51	-309.17	316.03	0.00	0.00	0.00
4,228.14	6.64	281.96	4,210.00	66.19	-312.35	319.29	0.00	0.00	0.00
Top of Paddock									
4,300.00	6.64	281.96	4,281.38	67.91	-320.47	327.59	0.00	0.00	0.00
4,400.00	6.64	281.96	4,380.71	70.30	-331.78	339.15	0.00	0.00	0.00
4,500.00	6.64	281.96	4,480.04	72.70	-343.09	350.71	0.00	0.00	0.00
4,600.00	6.64	281.96	4,579.37	75.10	-354.40	362.27	0.00	0.00	0.00
4,700.00	6.64	281.96	4,678.70	77.49	-365.70	373.82	0.00	0.00	0.00
4,721.45	6.64	281.96	4,700.00	78.01	-368.13	376.30	0.00	0.00	0.00
PBHL - PBHL-McIntyre #15									



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #15
Company:	COG Operating LLC	TVD Reference:	GL @ 3655.00usft
Project:	Eddy County, NM (NAN27-NME)	MD Reference:	GL @ 3655.00usft
Site:	McIntyre DK Federal	North Reference:	Grid
Well:	#15	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1, 7-7/8" Hole		

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL-McIntyre #15	0.00	0.01	4,700.00	78.01	-368.13	665,142.70	603,953.70	32° 49' 41.183 N	103° 59' 41.702 W
- plan hits target center									
- Circle (radius 10.00)									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,200.00	1,200.00	8 5/8"	8-5/8	12-1/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,228.14	4,210.00	Top of Paddock		0.00	

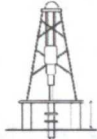
Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,300.00	1,300.00	0.00	0.00	KOP Start DLS 2.00 TFO 281.96
1,631.86	1,631.12	3.98	-18.78	Start 3089.59 hold at 1631.86 MD
4,721.45	4,700.00	78.01	-368.13	PBHL

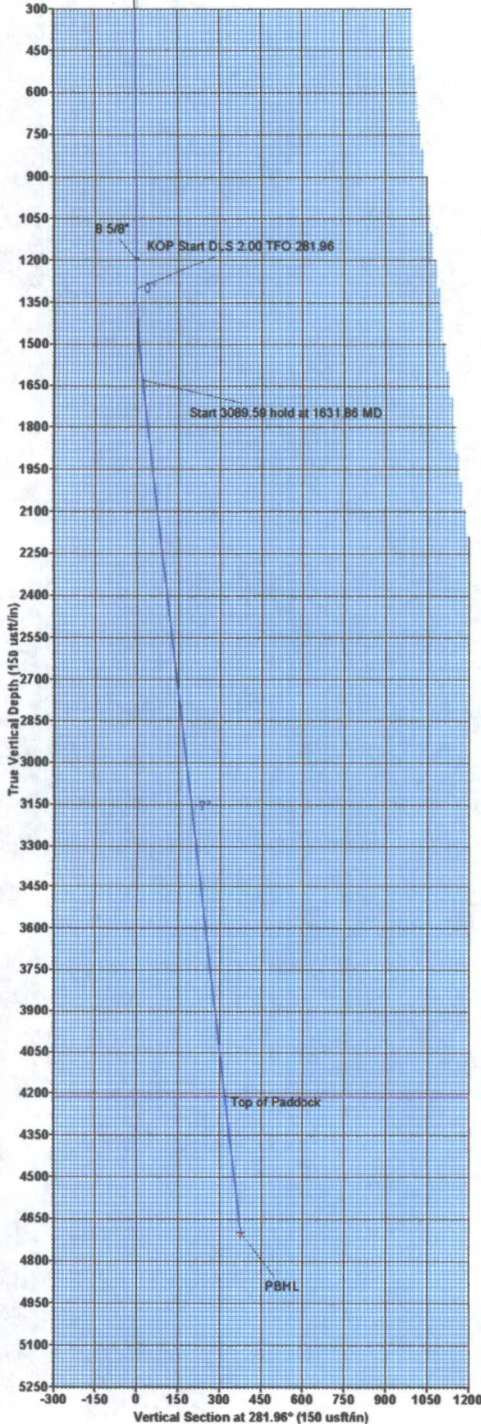


To convert Magnetic North to Grid, Add 7.50°
To convert True North to Grid, Subtract 0.18°

McIntyre DK Federal #15
Eddy County, NM (NAN27 NME)
Northing: 665064.70
Easting: 604321.80
Plan #1 7-7/8" Hole



Ground Level: 3655.00



WELL DETAILS:

+N/-S	+E/-W	North	Ground Level	3655.00	Latitude	Longitude
0.00	0.00	665064.70	Easting	604321.80	32° 49' 40.400 N	103° 59' 37.391 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	
1631.86	6.64	281.96	1631.12	3.98	-18.78	2.00	281.96	19.20	
4721.45	6.64	281.96	4700.00	78.01	-368.13	0.00	0.00	376.30	PBHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	North	Easting
PBHL-McIntyre #15	4700.00	78.01	-368.13	665142.70	603953.70

SITE DETAILS: McIntyre DK Federal
Site Centre Northing: 665423.90
Easting: 604001.80
Positional Uncertainty: 0.00
Convergence: 0.18
Local North: Grid

PROJECT DETAILS: Eddy County, NM (NAN27 NME)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001
System Datum: Mean Sea Level

CASING DETAILS

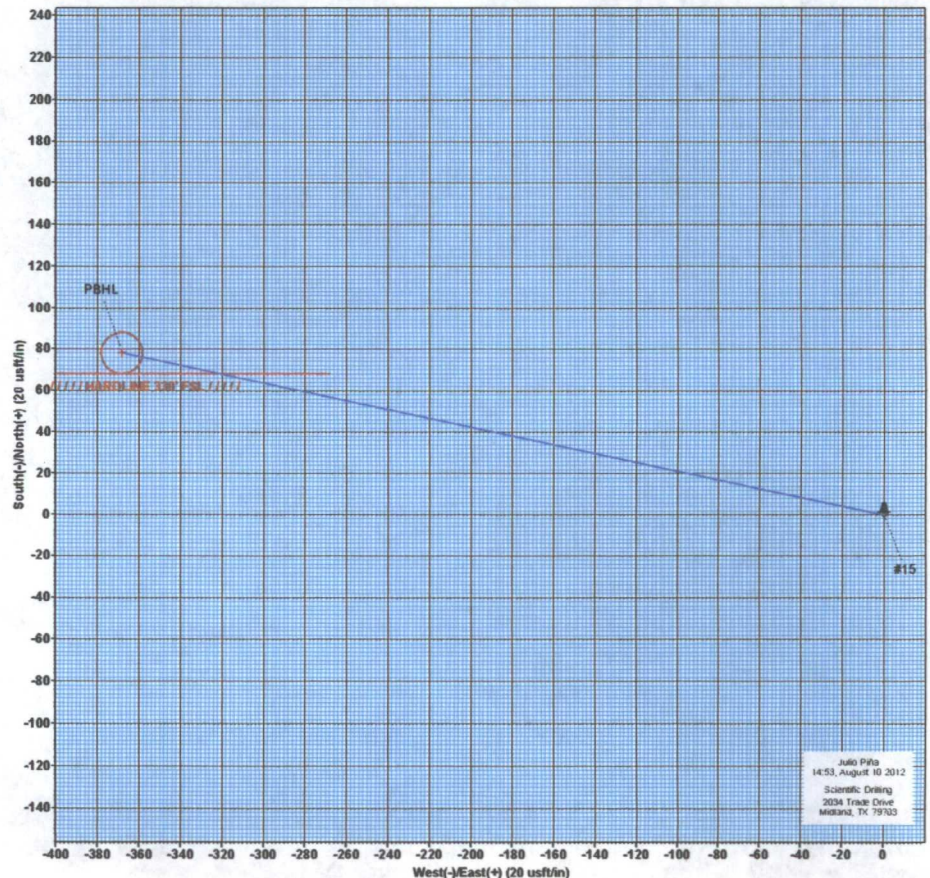
TVD	MD	Name	Size
1200.00	1200.00	8 5/8"	8-5/8

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4210.00	4228.14	Top of Paddock

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001
Local Origin: Well #15, Grid North
Latitude: 32° 49' 40.400 N
Longitude: 103° 59' 37.391 W
Grid East: 604321.80
Grid North: 665064.70
Scale Factor: 1.000

Geomagnetic Model: IGRF 2010
Sample Date: 10-Aug-12
Magnetic Declination: 7.50°
Dip Angle from Horizontal: 60.64°
Magnetic Field Strength: 48816
To convert Magnetic North to Grid, Add 7.50°
To convert Magnetic North to True North, Add 7.69° East
To convert True North to Grid, Subtract 0.18°



Brooks, David K., EMNRD

From: Brooks, David K., EMNRD
Sent: Wednesday, October 17, 2012 2:00 PM
To: kholly@concho.com
Subject: McIntyre DK Federal #15; NSL Application

Dear Ms. Holly

This application states that the units encroached towards (Units B&C of Section 20) are operated by COG, but not that they are owned 100% by COG, nor that the working interest ownership is identical to that of the drilling unit (Unit N of Section 17).

Please clarify.

Thanks

David K. Brooks

Brooks, David K., EMNRD

From: Brooks, David K., EMNRD
Sent: Wednesday, October 17, 2012 2:05 PM
To: kholly@concho.com
Subject: McIntyre DK Federal #15; NSL Application

Dear Ms. Holly.

This is a correction of my message a few minutes ago.

The relevant inquiry is whether Units B and C of Section 20 have identical ownership with Unit M, not N of Section 17. If I correctly understand the diagram, the completed interval of this well is from the designated point (327 FSL & 2306 FWL) to the bottom hole location, therefore entirely within Unit M.

Sincerely

David K. Brooks

Brooks, David K., EMNRD

From: Kelly Holly <kholly@concho.com>
Sent: Thursday, October 18, 2012 7:59 AM
To: Brooks, David K., EMNRD
Subject: RE: McIntyre DK Federal #15; NSL Application

Units B & C are owned 100% by COG.

Kelly Holly
Permitting Tech-NM

One Concho Center, Floor 8
432.685.4384 (direct)
kholly@concho.com

Mailing Address:
One Concho Center
600 W Illinois Ave
Midland, Texas 79701



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From: Brooks, David K., EMNRD [<mailto:david.brooks@state.nm.us>]
Sent: Wednesday, October 17, 2012 3:00 PM
To: Kelly Holly
Subject: McIntyre DK Federal #15; NSL Application

Dear Ms. Holly

This application states that the units encroached towards (Units B&C of Section 20) are operated by COG, but not that they are owned 100% by COG, nor that the working interest ownership is identical to that of the drilling unit (Unit N of Section 17).

Please clarify.

Thanks

David K. Brooks

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