

ABOVE THIS LINE FOR DIVISION USE ONLY

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



COG Operating LLC
Polaris B Federal #3
5947

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 _____

RECEIVED
008 SEP 17 PM 12 42

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☒ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners INTERESTS ARE COMMON
- [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**

**Polaris B Federal 31
Eddy County, NM**

COG proposes to drill a South $\frac{1}{2}$, 40 acre spacing
Loco Hills; Glorieta-Yeso oil well - TD of approximately 6000'

1090' FSL & 400' FEL Sec 9, T17S, R30E, Unit P

This well had to be drilled at a non-standard location due to sand dunes.

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 Polaris B Federal #5 (330' FSL & 330' FWL, UL P) which was completed in November 2006.

The Polaris B Federal #5 completion broke the Yeso up into 4 perf/stimulation intervals. At this time, we assume the Polaris B Federal 31 should be very similar.

Polaris B Federal #5 has perms from: 4465' – 5782' overall, but broken up into 4 separate intervals, with 4 separate fracs

1st interval: 5569.5' – 5782',
acidized w/ 3000 gals,
frac'd w/ 97,104 gals gel, 8,174 # LiteProp, & 87,611# 16/30 sand.

2nd interval: 5258' – 5478',
acidized w/ 3000 gals,
frac'd w/ 108,600 gals 30# gel, 58,900 gals 40# gel, 8012# LiteProp, & 91,700# 16/30 sand.

3rd interval: 4942' – 5155',
acidized w/ 3000 gals,
frac'd w/ 94,710 gals gel, 7,985# LiteProp, & 90,837# 16/30 sand.

4th interval: 4465' – 4750',
acidized w/ 2500 gals,
frac'd w/ 32,545 gals 30# gel, 61,576 gals 30# gel, 91,820# 16/30 sand & 8023# LiteProp.

Attachment 1

Plat

Attachment 2

Map & legend of offset wells.

Attachment 3

Updated land plat showing that COG Operating LLC owns offset acreage.
The acreage we are encroaching on is the NE/4 of the SE/4 of Section 9.
COG owns all of the SE/4 of Section 9. 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
1225 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-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015- 20 36663	Pool Code 96718	Pool Name LOCO HILLS; GLORIETA YESO
Property Code 302547	Property Name POLARIS B FEDERAL	Well Number 31
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3696'

Surface Location

UL or lot No. P	Section 9	Township 17-S	Range 30-E	Lot Idn	Feet from the 1090	North/South line SOUTH	Feet from the 400	East/West line EAST	County EDDY
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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

GEODETIC COORDINATES NAD 27 NME Y=671191.0 N X=611846.5 E LAT.=32.844659° N LONG.=103.969155° W		OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my	
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Offset Wells to Polaris B Federal 20

API#	Operator	Lease	Well#	County	Legal	Last Prod.	Field Name	Reservoir Name	Total Well Depth	Well Status
30-015-20537	CBS OPERATING CORPORATION	LOCO HILLS B FEDERAL	001	EDDY	S:9, T:17S, R:30E	May 2008	GRAYBURG JACKSON	SR-Q-G-SA	2,872	Injection Well
30-015-20617	CBS OPERATING CORPORATION	LOCO HILLS B FEDERAL	002	EDDY	S:9, T:17S, R:30E	Apr 2005	GRAYBURG JACKSON	SR-Q-G-SA	2,878	Active
30-015-20617	CBS OPERATING CORPORATION	LOCO HILLS B FEDERAL	002	EDDY	S:9, T:17S, R:30E	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		2,878	Active
30-015-20672	CBS OPERATING CORPORATION	LOCO HILLS B FEDERAL	005	EDDY	S:9, T:17S, R:30E	Sep 2004	GRAYBURG JACKSON	SR-Q-G-SA	2,870	Flowing
30-015-20672	CBS OPERATING CORPORATION	LOCO HILLS B FEDERAL	005	EDDY	S:9, T:17S, R:30E	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		2,870	Flowing
30-015-20673	CBS OPERATING CORPORATION	LOCO HILLS B FEDERAL	006	EDDY	S:9, T:17S, R:30E	Nov 2007	GRAYBURG JACKSON	SR-Q-G-SA	2,880	Active
30-015-20673	CBS OPERATING CORPORATION	LOCO HILLS B FEDERAL	006	EDDY	S:9, T:17S, R:30E	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		2,880	Active
30-015-20674	CBS OPERATING CORPORATION	LOCO HILLS B FEDERAL	007	EDDY	S:9, T:17S, R:30E	Dec 1982	GRAYBURG JACKSON	SR-Q-G-SA		Flowing
30-015-20674	CBS OPERATING CORPORATION	LOCO HILLS B FEDERAL	007	EDDY	S:9, T:17S, R:30E	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		</	

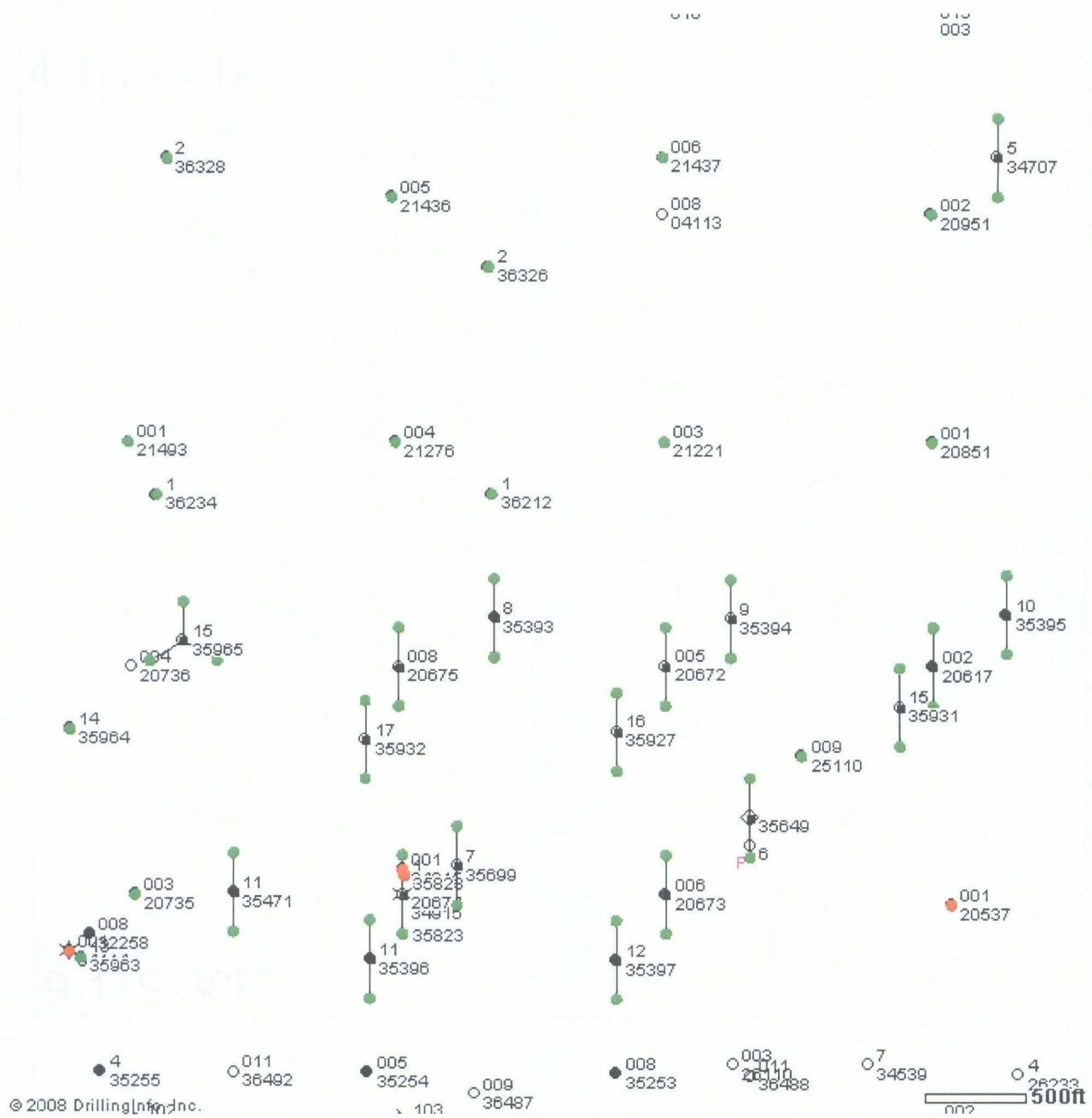
DI Search Results (Printable Table)

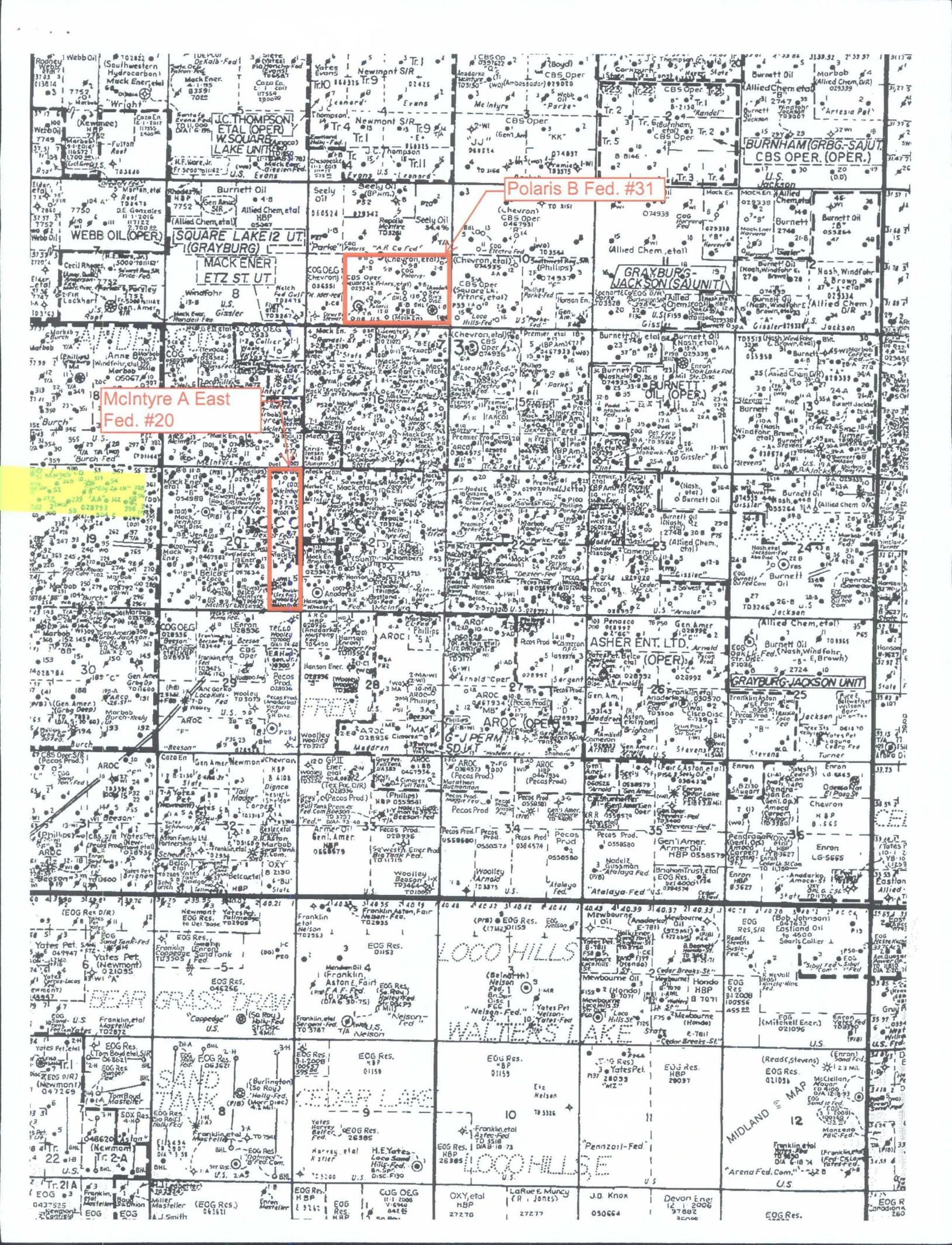
30-015-21221	SEELY OIL CO	FEDERAL	003	EDDY	T:17S, R:30E	May 2008	SQUARE LAKE	GRAYBURG-SAN ANDRES	0	Pumping
30-015-21276	SEELY OIL CO	ARCO FEDERAL	004	EDDY	S:9, T:17S, R:30E	May 2008	SQUARE LAKE	GRAYBURG-SAN ANDRES	0	Pumping
30-015-21436	SEELY OIL CO	ARCO FEDERAL	005	EDDY	S:9, T:17S, R:30E	May 2008	SQUARE LAKE	GRAYBURG-SAN ANDRES	0	Pumping
30-015-21437	SEELY OIL CO	ARCO FEDERAL	006	EDDY	S:9, T:17S, R:30E	May 2008	SQUARE LAKE	GRAYBURG-SAN ANDRES	0	Pumping
30-015-21493	SEELY OIL CO	PARKE G FEDERAL	001	EDDY	S:9, T:17S, R:30E	May 2008	SQUARE LAKE	GRAYBURG-SAN ANDRES	0	Pumping
30-015-25110	CBS OPERATING CORPORATION	LOCO HILLS B FEDERAL	009	EDDY	S:9, T:17S, R:30E	Oct 2006	GRAYBURG JACKSON	SR-Q-G-SA	3,040	Shut-in
30-015-20735		HOLDER CB NCT B FEDERAL	003	EDDY	S:9, T:17S, R:30E		GRAYBURG JACKSON	SR-Q-G-SA	3,600	Active
30-015-04114		HOLDER CB NCT B FEDERAL	001	EDDY	S:9, T:17S, R:30E	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA		Active
30-015-34915	GRUY PETROLEUM MANAGEMENT CO.	STEWART 9 FEDERAL COM	001	EDDY	S:9, T:17S, R:30E		LOCO HILLS	MORROW (GAS)	11,650	Active Permit
30-015-35823	GRUY PETROLEUM MANAGEMENT CO.	STEWART 9 FEDERAL COM	1	EDDY	S:9, T:17S, R:30E		LOCO HILLS	MORROW (GAS)	11,650	Active Permit
30-015-34707	COG OPERATING LLC	POLARIS B FEDERAL	5	EDDY	S:9, T:17S, R:30E	Nov 2006	LOCO HILLS; GLORIETS YESO		5,985</	

DI Search Results (Printable Table)

30-015-35397	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	12	EDDY	S:9, T:17S, R:30E	Nov 2007	LOCO HILLS; GLORETA-YESO (GAS)	GAS	5,920	Active
30-015-34707	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	5	EDDY	S:9, T:17S, R:30E	May 2008	LOCO HILLS	PADDOCK	5,985	Active Permit
30-015-35471	C.O.G. OPERATING, L.L.C.	HOLDER CB FEDERAL	11	EDDY	S:9, T:17S, R:30E	May 2008	LOCO HILLS	PADDOCK	5,896	Active
30-015-35649	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	6	EDDY	S:9, T:17S, R:30E	May 2008	LOCO HILLS	PADDOCK	5,970	Active
30-015-35699	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	7	EDDY	S:9, T:17S, R:30E	May 2008	LOCO HILLS	PADDOCK	6,020	Active Permit
30-015-35393	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	8	EDDY	S:9, T:17S, R:30E		LOCO HILLS; GLORIETA YESO		5,970	Active
30-015-35927	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	16	EDDY	S:9, T:17S, R:30E	May 2008	LOCO HILLS	PADDOCK	5,935	Active Permit
30-015-35931	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	15	EDDY	S:9, T:17S, R:30E	May 2008	LOCO HILLS	PADDOCK	5,920	Active Permit
30-015-35932	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	17	EDDY	S:9, T:17S, R:30E	May 2008	LOCO HILLS	PADDOCK	5,920	Active Permit
30-015-35471	C.O.G. OPERATING, L.L.C.	HOLDER CB FEDERAL	11	EDDY	S:9, T:17S, R:30E		LOCO HILLS; EMPIRE; YESO		5,896	Active
30-015-35649	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	6	EDDY	S:9, T					

30-015-35396	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	11 EDDY	S:9, T:17S, R:30E	LOCO HILLS; GLORETA-YESO (GAS)	GAS	6,015 Active
30-015-35397	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	12 EDDY	S:9, T:17S, R:30E	May 2008 LOCO HILLS	PADDOCK	5,920 Active
30-015-35699	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	7 EDDY	S:9, T:17S, R:30E	LOCO HILLS; GLORIETA YESO		6,020 Active Permit
30-015-35927	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	16 EDDY	S:9, T:17S, R:30E	LOCO HILLS; GLORIETA YESO		5,935 Active Permit
30-015-35931	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	15 EDDY	S:9, T:17S, R:30E	LOCO HILLS; GLORIETA YESO		5,920 Active Permit
30-015-35932	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	17 EDDY	S:9, T:17S, R:30E	LOCO HILLS	QU-GB-SA, SOUTH	5,920 Active Permit
30-015-36212	CIMAREX ENERGY CO. OF COLORADO	DRACO 9 FEDERAL	1 EDDY	S:9, T:17S, R:30E	LOCO HILLS	PADDOCK	6,000 Active Permit
30-015-36234	CIMAREX ENERGY CO. OF COLORADO	VEGA "9" FEDERAL	1 EDDY	S:9, T:17S, R:30E	LOCO HILLS	PADDOCK	6,000 Active Permit
30-015-35395	C.O.G. OPERATING, L.L.C.	POLARIS B FEDERAL	10 EDDY	S:9, T:17S, R:30E	LOCO HILLS	QU-GB-SA, SOUTH	6,000 Active
30-015-35965	COB OPERATING LLC	HOLDER CB FEDERAL	15 EDDY	S:9, T:17S, R:30E	LOCO HILLS; GLORIETA-YESO		5,920 Active Permit
30-015-36328	CIMAREX ENERGY CO. OF COLORADO	VEGA "9" FEDERAL	2 EDDY	S:9, T:17S, R:30E	LOCO HILLS (PADDOCK)	PADDOCK	6,000 Active Permit
30-015-36326	CIMAREX ENERGY CO. OF COLORADO	DRACO 9 FEDERAL	2 EDDY	S:9, T:17S, R:30E	LOCO HILLS (PADDOCK)	PADDOCK	6,000 Active Permit
3							





Brooks, David K., EMNRD

From: Brooks, David K., EMNRD
Sent: Wednesday, October 29, 2008 1:00 PM
To: 'Phyllis Edwards'
Subject: Polaris B Federal #31; NSL Application

Dear Ms. Edwards

In addition to the encroachment toward the NE/4 SE/4 of Section 9, which you have noted, it seems that this location encroaches on the diagonal toward the NW/4 SW/4 of Section 10.

Please advise if ownership is also identical in Unit L of Section 10. If not, notice will be required to the operator or owners in that Unit.

Sincerely

David K. Brooks
Legal Examiner
505-986-8808

10/29/2008

Brooks, David K., EMNRD

From: Phyllis Edwards [PEdwards@conchoresources.com]
Sent: Wednesday, October 29, 2008 2:41 PM
To: Brooks, David K., EMNRD
Subject: RE: Polaris B Federal #31; NSL Application

Dear Mr. Brooks,

I spoke with our Land Tech, and she informed me that in Section 10, Unit L, COG owns 100% down to 50' below the base of the Wolfcamp formation.

Please let me know if you need anything else.

Thanks so much for your help !!!

Phyllis Edwards

Regulatory Analyst



COG Operating LLC

Fasken Tower II

550 W. Texas Avenue, Suite 1300

Midland, TX 79701

432-685-4340 P

432-685-4399 F

pedwards@conchoresources.com

From: Brooks, David K., EMNRD [mailto:david.brooks@state.nm.us]

Sent: Wednesday, October 29, 2008 3:00 PM

To: Phyllis Edwards

Subject: Polaris B Federal #31; NSL Application

Dear Ms. Edwards

In addition to the encroachment toward the NE/4 SE/4 of Section 9, which you have noted, it seems that this location encroaches on the diagonal toward the NW/4 SW/4 of Section 10.

Please advise if ownership is also identical in Unit L of Section 10. If not, notice will be required to the operator or owners in that Unit.

Sincerely

David K. Brooks
Legal Examiner
505-986-8808

10/29/2008

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10/29/2008