

DATE IN	SUSPENSE	Brooks ENGINEER	11/27/07 LOGGED IN	NSL TYPE	PKVR0733135594 APP NO.
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11/27/07

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
 Harvard Federal #11
 5653

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

- [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.

PHYLLIS A. EDWARDS
 Print or Type Name

Phyllis A. Edwards
 Signature

REGULATORY ANALYST
 Title

11-26-07
 Date

pedwards@conchoresources.com
 e-mail Address

RECEIVED
 2007 NOV 27 AM 9:05

**Harvard Federal #10
Eddy County, NM**

VERTICAL Loco Hills; Glorieta Yeso oil well
TD of approximately 6050'
1690' FNL & 1055' FWL Sec 12, T17S, R30E, Unit E

This well had to be drilled at a non-standard location
due to a caliche pit and power 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 similar to the

Harvard Federal #6
2310 FNL & 330 FWL, Section 12, T17S, R30E, UL E
completed in November 2006

The Harvard Federal #6 completion broke the Yeso up into 3 Yeso
perf/stimulation intervals. Harvard Federal #6 has perms from: 5044.5' – 5912.5'
with acid and frac stimulations.

1st interval: 5044.5' - 5227.5'
acidized w/ 2500 gals,
frac w/ 96,041 gals gel, 8011# LiteProp, & 93,020# 16/30 sand.

2nd interval: 5321' – 5662'
acidized w/ 3000 gals,
frac w/ 32,500 gals 30# gel, 58,112 gals 40# gel, 8367# LiteProp, & 75,028#
16/30 white sand.

3rd interval: 5777.5' – 5912.5'
acidized w/ 2500 gals

At this time, we assume the Harvard Federal #10 will be very similar.

Attachment 1

Plat with attachment

Attachment 2

Map and legend of offset wells.

Attachment 3

Updated land plat showing that COG Operating LLC acreage in yellow.
The acreage we are encroaching on is the SE/4 of the NW/4 of Section 12.
COG owns the W/2 of the NW/4 of Section 12.
Burnett Oil Co., Inc. owns the E/2 of the NW/4 of Section 12.
Attached is the letter dated 11-16-07 and proof of notice to Burnett Oil.

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
1220 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	Pool Code 96718	Pool Name LOCO HILLS; GLORIETA YESO
Property Code 302440	Property Name HARVARD FEDERAL	Well Number 10
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3757'

Surface Location

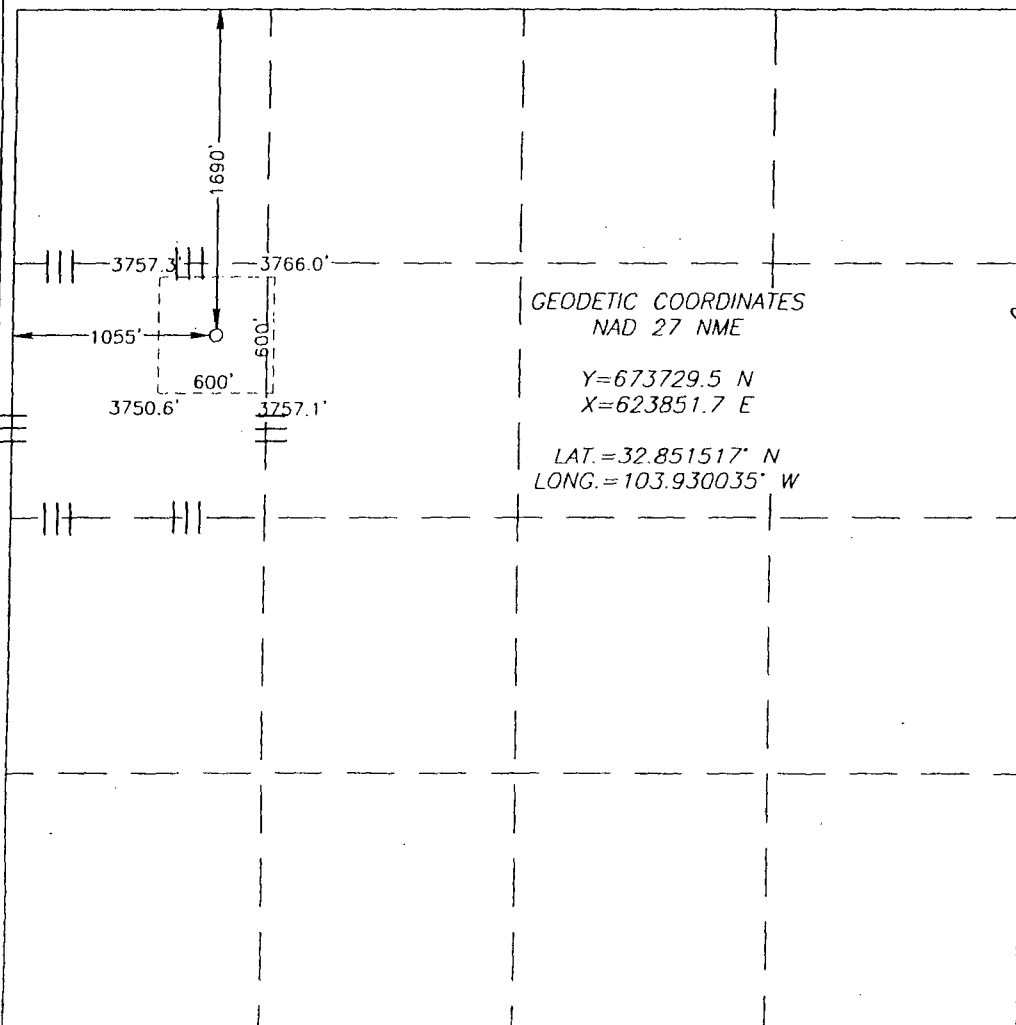
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	12	17-S	30-E		1690	NORTH	1055	WEST	EDDY

Bottom Hole Location If Different From Surface

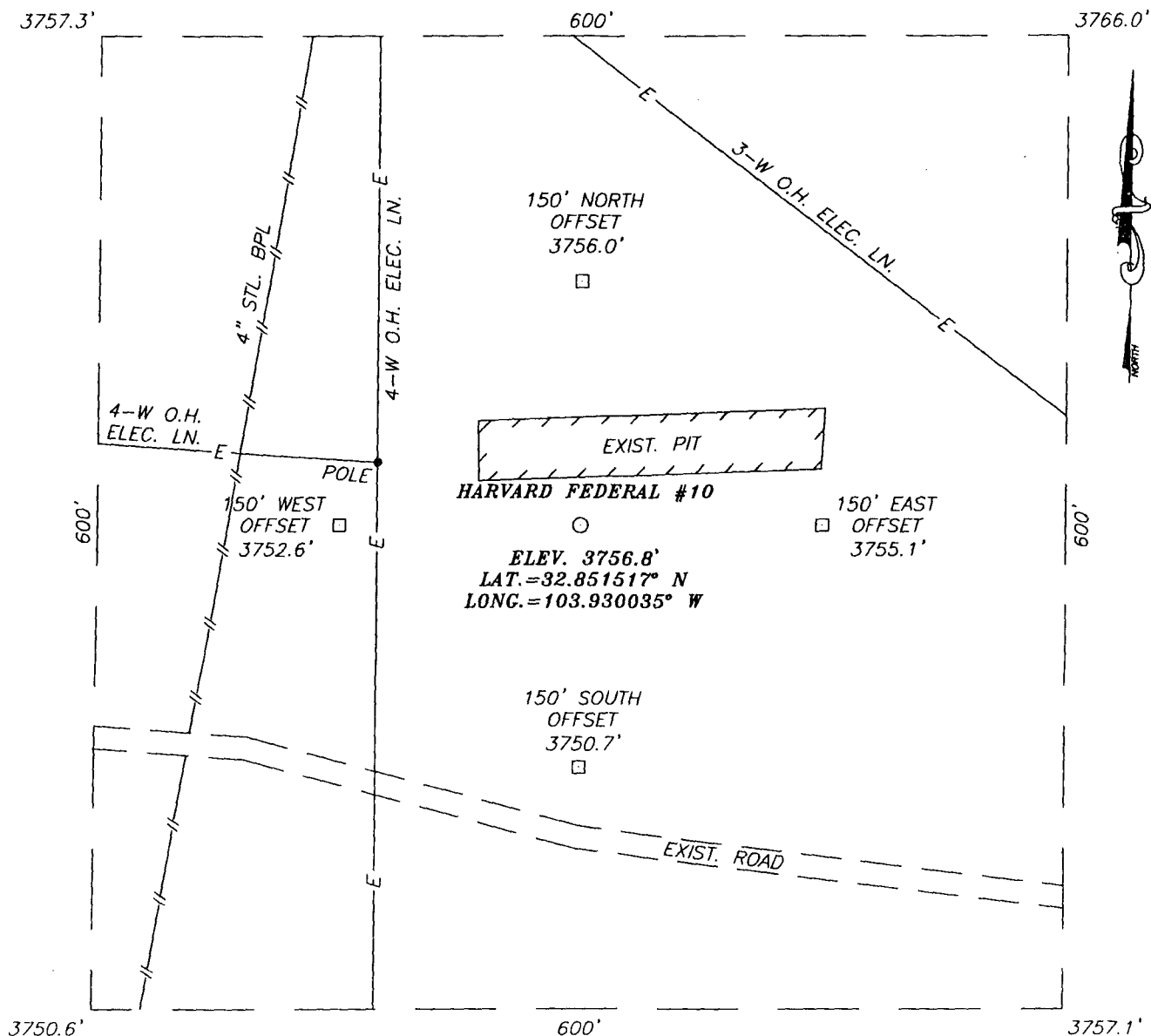
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 40	Joint or Infill	Consolidation Code	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

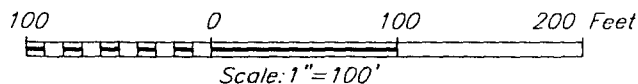
 GEODETIC COORDINATES NAD 27 NME Y=673729.5 N X=623851.7 E LAT.=32.851517° N LONG.=103.930035° W	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral 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. <i>Phyllis A. Edwards</i> 9-14-07 Signature Date Phyllis A. Edwards-Regulatory Printed Name Analyst 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. <i>Ronald J. Eidson</i> Date of Survey Signature & Seal Professional Surveyor 9/12/07 07-11-0985 Certificate No. GARY EIDSON 12641 RONALD EIDSON 3239
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SECTION 12, TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

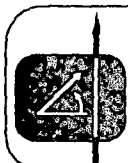
FROM THE INTERSECTION OF U.S HWY. #82 AND
 CO. RD. #220 (SQUARE LAKE RD), GO NORTH ON
 CO. RD. #220 FOR APPROX. 2.4 MILES. TURN
 LEFT AND GO WEST APPROX. 0.2 MILES. THIS
 LOCATION IS APPROX. 193 FEET NORTH.



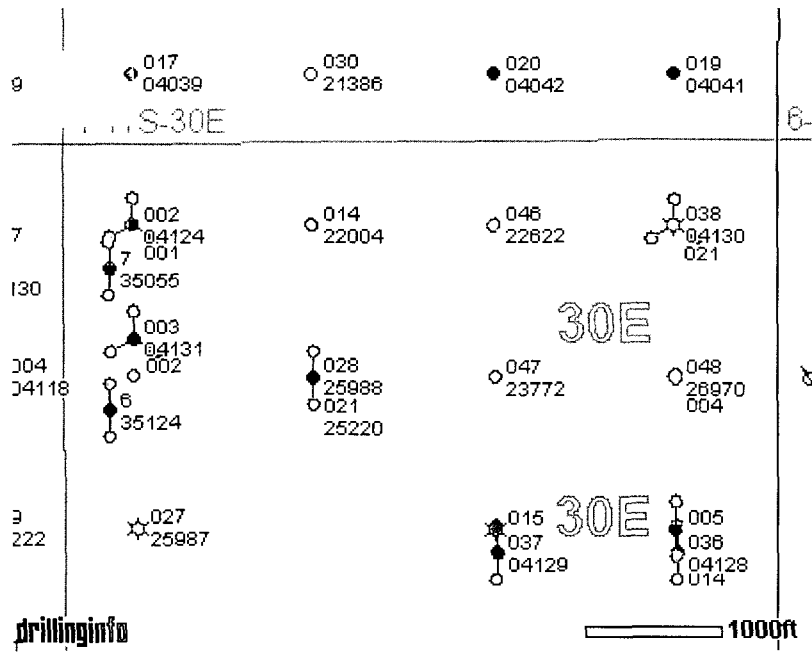
COG OPERATING, LLC

HARVARD FEDERAL #10 WELL
 LOCATED 1690 FEET FROM THE NORTH LINE
 AND 1055 FEET FROM THE WEST LINE OF SECTION 12,
 TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 9/4/07	Sheet 1 of 1 Sheets
W.O. Number: 07.11.0985	Dr By: LA
Date: 9/11/07	Disk: CD#6
07110985	Scale: 1"=100'



PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 393-3117



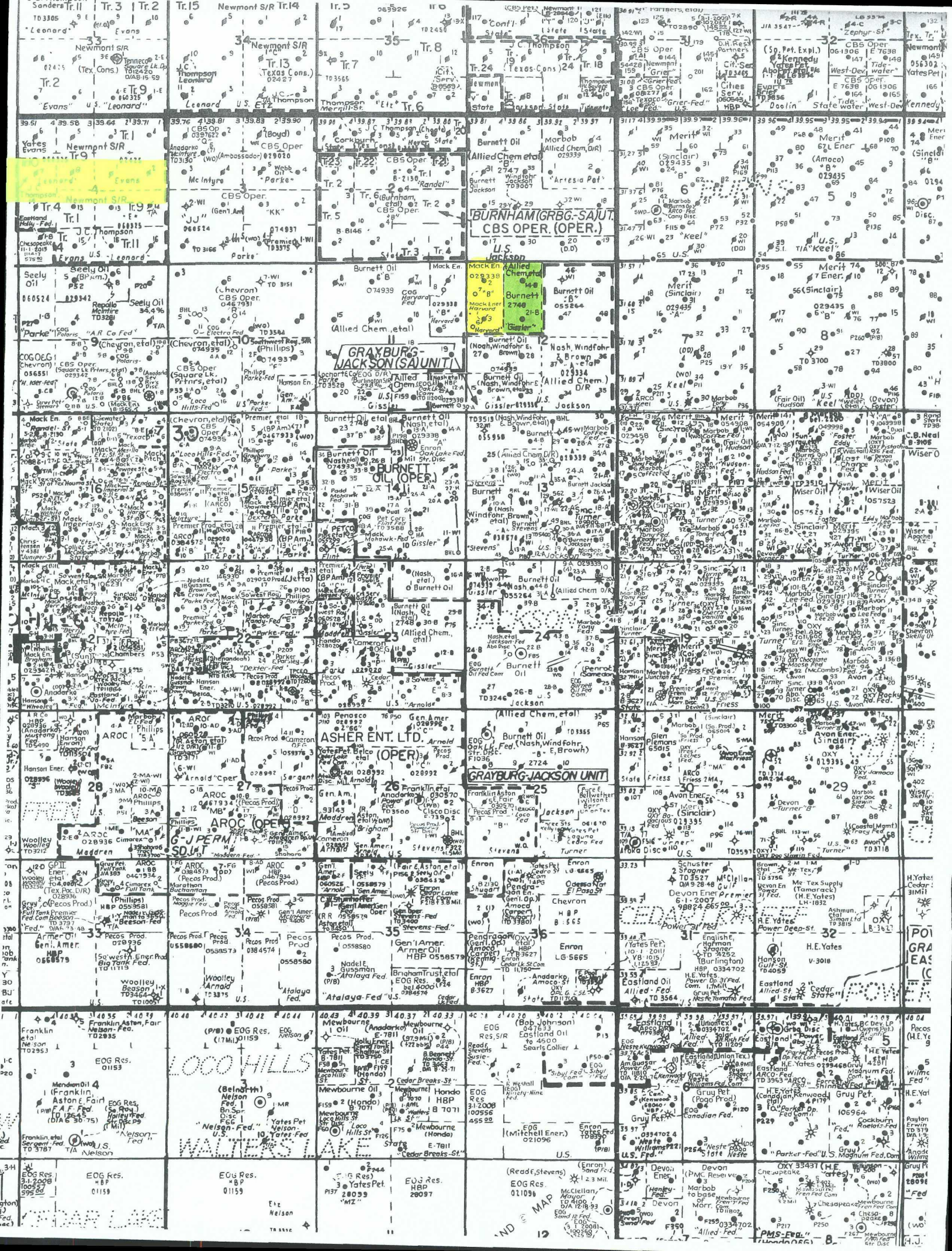
Offset Wells - Harvard Federal 10

API#	Operator	Lease	Well#	County	Legal	Last Prod.	Field Name	Reservoir Name	Total Well Depth Status
30-015-04124	MACK ENERGY CORP	HARVARD	002	EDDY	S:12, T:17S, R:30E	Apr 1974	SQUARE LAKE	GRAYBURG-SAN ANDRES	0 Pumping
30-015-04125	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	033	EDDY	S:12, T:17S, R:30E	Dec 1967	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0 Pumping
30-015-04125	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	033	EDDY	S:12, T:17S, R:30E	May 1969	GRAYBURG JACKSON	SR-Q-G-SA	0 Pumping
30-015-04126	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	035	EDDY	S:12, T:17S, R:30E	Dec 1967	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0 Pumping
30-015-04126	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	035	EDDY	S:12, T:17S, R:30E	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	0 Pumping
30-015-04127	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	034	EDDY	S:12, T:17S, R:30E	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0 Pumping
30-015-04127	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	034	EDDY	S:12, T:17S, R:30E	Aug 2007	GRAYBURG JACKSON	SR-Q-G-SA	0 Pumping
30-015-04128	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	036	EDDY	S:12, T:17S, R:30E	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0 Pumping
30-015-04128	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	036	EDDY	S:12, T:17S, R:30E	Sep 2007	GRAYBURG JACKSON	SR-Q-G-SA	0 Pumping
30-015-04129	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	037	EDDY	S:12, T:17S, R:30E	Dec 1967	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0 Flowing
30-015-04129	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	037	EDDY	S:12, T:17S, R:30E	Sep 2007	GRAYBURG JACKSON	SR-Q-G-SA	0 Flowing
30-015-04130	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	038	EDDY	S:12, T:17S, R:30E	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0 Pumping
30-015-04130	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	038	EDDY	S:12, T:17S, R:30E	Sep 2007	SQUARE LAKE	GRAYBURG-SAN ANDRES	0 Pumping
	BURNETT	GRAYBURG			S:12,				

30-015-04130	OIL CO INC	JACKSON S A UNIT	038	EDDY	T:17S, R:30E	Sep 2007	GRAYBURG JACKSON	SR-Q-G-SA	0	Pumping
30-015-04131	MACK ENERGY CORP	HARVARD	003	EDDY	S:12, T:17S, R:30E	Jan 2003	SQUARE LAKE	GRAYBURG-SAN ANDRES	0	Pumping
30-015-22004	BURNETT OIL CO INC	GISSLER B	014	EDDY	S:12, T:17S, R:30E	Sep 2007	SQUARE LAKE	GRAYBURG-SAN ANDRES		Pumping
30-015-22622	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	046	EDDY	S:12, T:17S, R:30E		GRAYBURG JACKSON	SR-Q-G-SA	0	Pumping
30-015-23772	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	047	EDDY	S:12, T:17S, R:30E	Sep 2007	GRAYBURG JACKSON	SR-Q-G-SA	0	Pumping
30-015-25220	BURNETT OIL CO INC	GISSLER B	021	EDDY	S:12, T:17S, R:30E	Sep 2007	SQUARE LAKE	GRAYBURG-SAN ANDRES	0	Flowing
30-015-25875	BURNETT OIL CO INC	GISSLER A	015	EDDY	S:12, T:17S, R:30E	Sep 2007	GRAYBURG JACKSON	SR-Q-G-SA	0	Pumping
30-015-25987	BURNETT OIL CO INC	GISSLER B(A- 2)	027	EDDY	S:12, T:17S, R:30E	Sep 2007	GRAYBURG JACKSON	SR-Q-G-SA	0	Flowing
30-015-25988	BURNETT OIL CO INC	GISSLER B(A- 2)	028	EDDY	S:12, T:17S, R:30E	Sep 2007	GRAYBURG JACKSON	SR-Q-G-SA	0	Pumping
30-015-26970	BURNETT OIL CO INC	GRAYBURG JACKSON S A UNIT	048	EDDY	S:12, T:17S, R:30E	Sep 2007	GRAYBURG JACKSON	SR-Q-G-SA	0	Pumping
30-015-00000	NASH WINDFOHR	GISSLER A	002	EDDY	S:12, T:17S, R:30E	Dec 1956	GRAYBURG JACKSON	SR-Q-G-SA		Active
30-015-00000	NASH WINDFOHR	JACKSON A	012	EDDY	S:12, T:17S, R:30E	Dec 1966	GRAYBURG JACKSON	SR-Q-G-SA		Active
30-015-00000	NASH WINDFOHR	JACKSON A	013	EDDY	S:12, T:17S, R:30E	Dec 1952	GRAYBURG JACKSON	SR-Q-G-SA		Active
30-015-00000	NASH WINDFOHR AND BROWN	GISSLER A FED	002	EDDY	S:12, T:17S, R:30E	Dec 1966	GRAYBURG JACKSON	SR-Q-G-SA		Active
30-015-00000	NASH WINDFOHR AND BROWN	GISSLER A FED	004	EDDY	S:12, T:17S, R:30E	Dec 1963	GRAYBURG JACKSON	SR-Q-G-SA		Active
	NASH				S:12,					

30-015-00000	WINDFOHR AND BROWN	GISSLER A FED	005 EDDY	T:17S, R:30E	Dec 1963	GRAYBURG JACKSON	SR-Q-G-SA	Active
30-015-00000	NASH WINDFOHR AND BROWN	JACKSON A FED	013 EDDY	S:12, T:17S, R:30E	Dec 1966	GRAYBURG JACKSON	SR-Q-G-SA	Active
30-015-00000	NASH WINDFOHR AND BROWN	JACKSON A FED	014 EDDY	S:12, T:17S, R:30E	Dec 1966	GRAYBURG JACKSON	SR-Q-G-SA	Active
30-015-00000	NASH WINDFOHR AND BROWN	JACKSON A FED	015 EDDY	S:12, T:17S, R:30E	Dec 1966	GRAYBURG JACKSON	SR-Q-G-SA	Active
30-015-00000	WELCH & IVERSON	GISSLER B	001 EDDY	S:12, T:17S, R:30E	Dec 1953	SQUARE LAKE	CANYON	Active
30-015-04124	IVERSON AND WELCH	GISSLER B FED	002 EDDY	S:12, T:17S, R:30E	Dec 1964	SQUARE LAKE GRAYBURG		0 Pumping
30-015-04131	IVERSON AND WELCH	GISSLER B FED	003 EDDY	S:12, T:17S, R:30E	Dec 1964	SQUARE LAKE GRAYBURG		0 Pumping
30-015-00000	WELCH & IVERSON	GISSLER B	002 EDDY	S:12, T:17S, R:30E	Dec 1953	SQUARE LAKE	CANYON	Active
30-015-00000	NASH WINDFOHR AND BROWN	JACKSON B FED SEC 1	021 EDDY	S:12, T:17S, R:30E	Dec 1966	SQUARE LAKE GRAYBURG		Active
30-015-00000	WELCH & IVERSON	GISSLER	004 EDDY	S:12, T:17S, R:30E	Dec 1957	SQUARE LAKE	CANYON	Active
30-015-00000	NASH WINDFOHR	GISSLER A FED	003 EDDY	S:12, T:17S, R:30E	Dec 1958	GRAYBURG		Active
30-015-04124	WELCH & IVERSON	GISSLER	002 EDDY	S:12, T:17S, R:30E	Dec 1971	SQUARE LAKE	CANYON	0 Pumping
30-015-04131	WELCH & IVERSON	GISSLER	003 EDDY	S:12, T:17S, R:30E	Dec 1971	SQUARE LAKE	CANYON	0 Pumping
30-015-35055	CHEVRON USA, INC.	HARVARD FEDERAL	7 EDDY	S:12, T:17S, R:30E	May 2007	LOCO HILLS	PADDOCK	6,235 Active Permit
30-015-35124	CHEVRON USA, INC.	HARVARD FEDERAL	6 EDDY	S:12, T:17S, R:30E	May 2007	LOCO HILLS	PADDOCK	6,000 Active Permit
				S:12,				

30-015-35124	CHEVRON USA, INC.	HARVARD FEDERAL	6	EDDY	T:17S, R:30E	LOCO HILLS EMPIRE YESO	6,000	Active Permit
30-015-35055	CHEVRON USA, INC.	HARVARD FEDERAL	7	EDDY	S:12, T:17S, R:30E	LOCO HILLS EMPIRE YESO	6,235	Active Permit



**COG OPERATING LLC
550 W. TEXAS, SUITE 1300
MIDLAND, TX 79701**

November 16, 2007

Burnett Oil Co., Inc.
801 Cherry Street, Unit 9- 1500
Ft. Worth, TX 76102-6881

Re: Request for Unorthodox Well Location

To Whom It May Concern:

This letter will serve as notice under Rule 104.F (3) that COG Operating LLC has requested administrative approval from the Oil Conservation Division in Santa Fe, NM for an unorthodox Loco Hills: GLORIETA-YESO oil well.

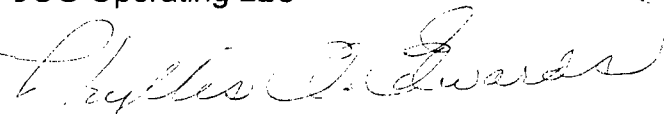
**HARVARD FEDERAL #10
Eddy County, NM**

1690' FNL & 1055' FWL Sec 12, T17S, R30E, Unit E

Should your company have any objection, it must be filed in writing within twenty (20) days from the date of this notice. The Division Director may allow COG to produce from the unorthodox location after the well is drilled, if no objection has been made within the 20 days after the application has been received.

Sincerely,

COG Operating LLC



Phyllis A. Edwards
Regulatory Analyst

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature ☒ <i>M Everett</i> ☒ Agent ☐ Addressee	
1. Article Addressed to: Burnett Oil Co., Inc. 801 Cherry Street, Unit 9- 1500 Ft. Worth, TX 76102-6881		B. Received by (Printed Name) <i>M Everett</i> C. Date of Delivery <i>11-19-07</i>	
		D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
		3. Service Type ☒ Certified Mail ☐ Express Mail ☐ Registered ☒ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D.	
		4. Restricted Delivery? (Extra Fee) ☐ Yes	
2. Article Number (Transfer from service label)		7003 1680 0006 6280 5053	

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540