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NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505

2009 MAY 20 AM 11 18



30015  
Gisster #29  
229137  
6040

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.

ROBYN M. ODOM  
Print or Type Name

*Robyn Odom*  
Signature

REGULATORY ANALYST  
Title

5/19/09  
Date

rodomb@conchoresources.com  
e-mail Address

**Gissler Federal #29  
Eddy County, NM**

COG proposes to drill a Vertical, South ½, 40 acre spacing  
Loco Hills; Glorieta-Yeso oil well  
TD of approximately 6000'

Location:  
1010' FSL & 1040' FEL                      Sec 5, 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  
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 #13 should be very similar.

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

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

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

3<sup>rd</sup> 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 that COG owns the offset acreage.  
The acreage we are encroaching on is the SW/4 SW/4, the NW/4 SW/4, and the  
NE/4 SW/4 of Section 5.

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**  
1220 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, NM 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-015-	<sup>2</sup> Pool Code 96718	<sup>3</sup> Pool Name LOCO HILLS; GLORIETA-YESO
<sup>4</sup> Property Code 302499	<sup>5</sup> Property Name GISSLER	
<sup>7</sup> OGRID No. 229137	<sup>8</sup> Operator Name CONCHO OIL AND GAS OPERATIING, LLC	<sup>6</sup> Well Number 29
		<sup>9</sup> Elevation 3698.1'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
-P	5	17 S.	30 E.		1010	SOUTH	1040	EAST	EDDY

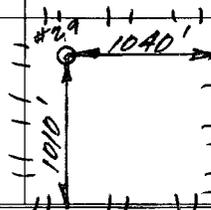
<sup>11</sup> Bottom Hole Location If Different From Surface

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

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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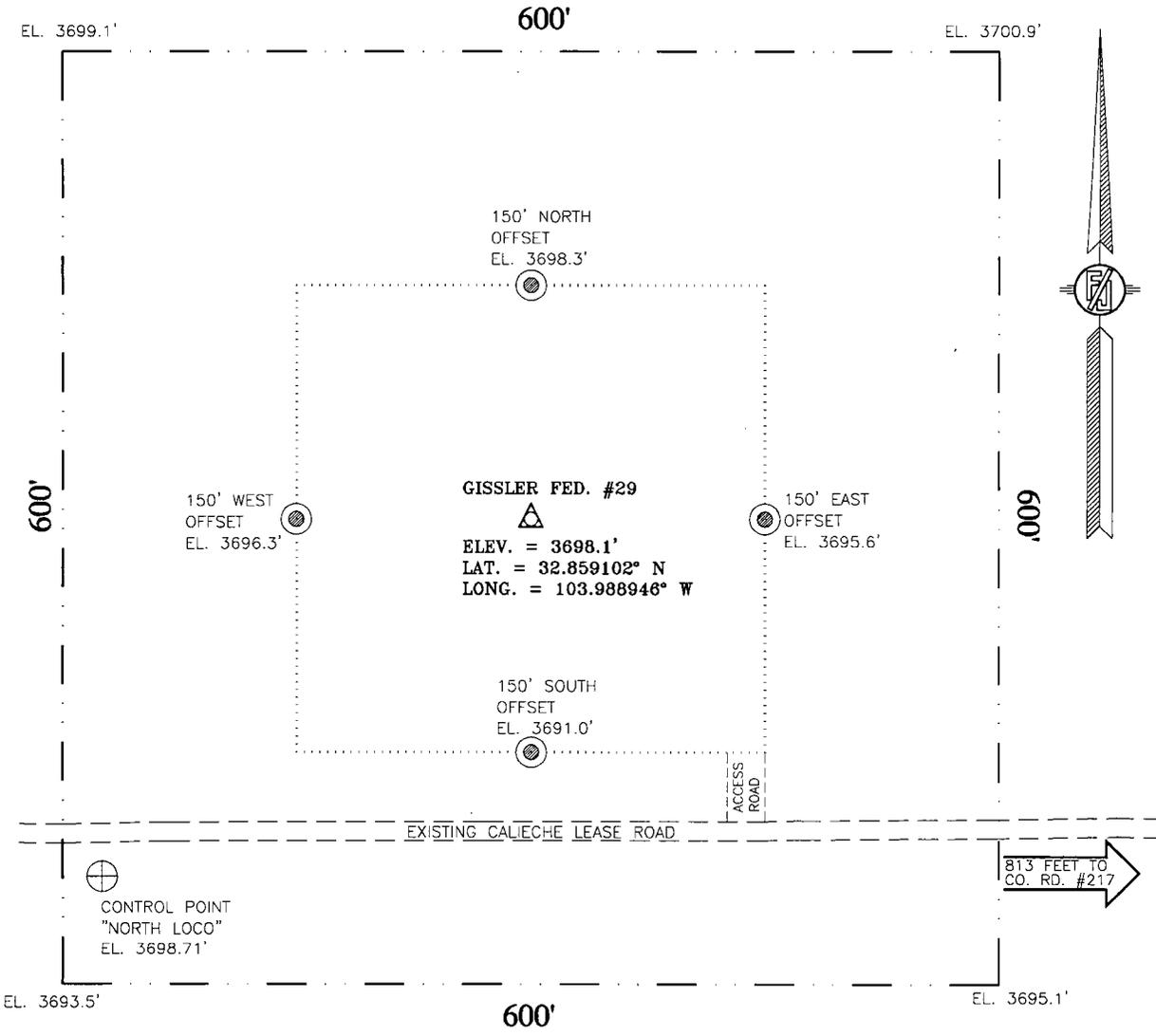
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16				<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>	
				<i>Robyn Odom</i>	5/19/09
				Signature	Date
				Robyn Odom Printed Name	
			(NAD-83) LAT: 32°51'32.8" LONG: 103°59'20.2"  Y=676449.515 N X=647076.665 W  ELEV.=3698.1	<sup>18</sup> 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, MAY 11, 2009		
			Signature and Seal of Professional Surveyor: <i>Filimon F. Jaramillo</i>		
			Certificate Number FILIMON F. JARAMILLO 12797 MADRON SURVEYING, INC.		



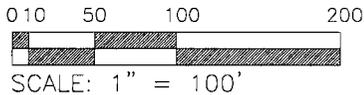
SURVEY N°028

SECTION 5, TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO



**DIRECTIONS TO LOCATION**

FROM U.S. HIGHWAY 82 AND COUNTY ROAD #217  
 HAGERMAN CUTOFF GO NORTH 2.7 MILES ON COUNTY  
 ROAD #217 AND TURN LEFT ON CALIECHE LEASE ROAD  
 THEN GO WEST 0.2 MILES AND LOCATION IS ON THE  
 RIGHT (NORTH) APPROX. 200'



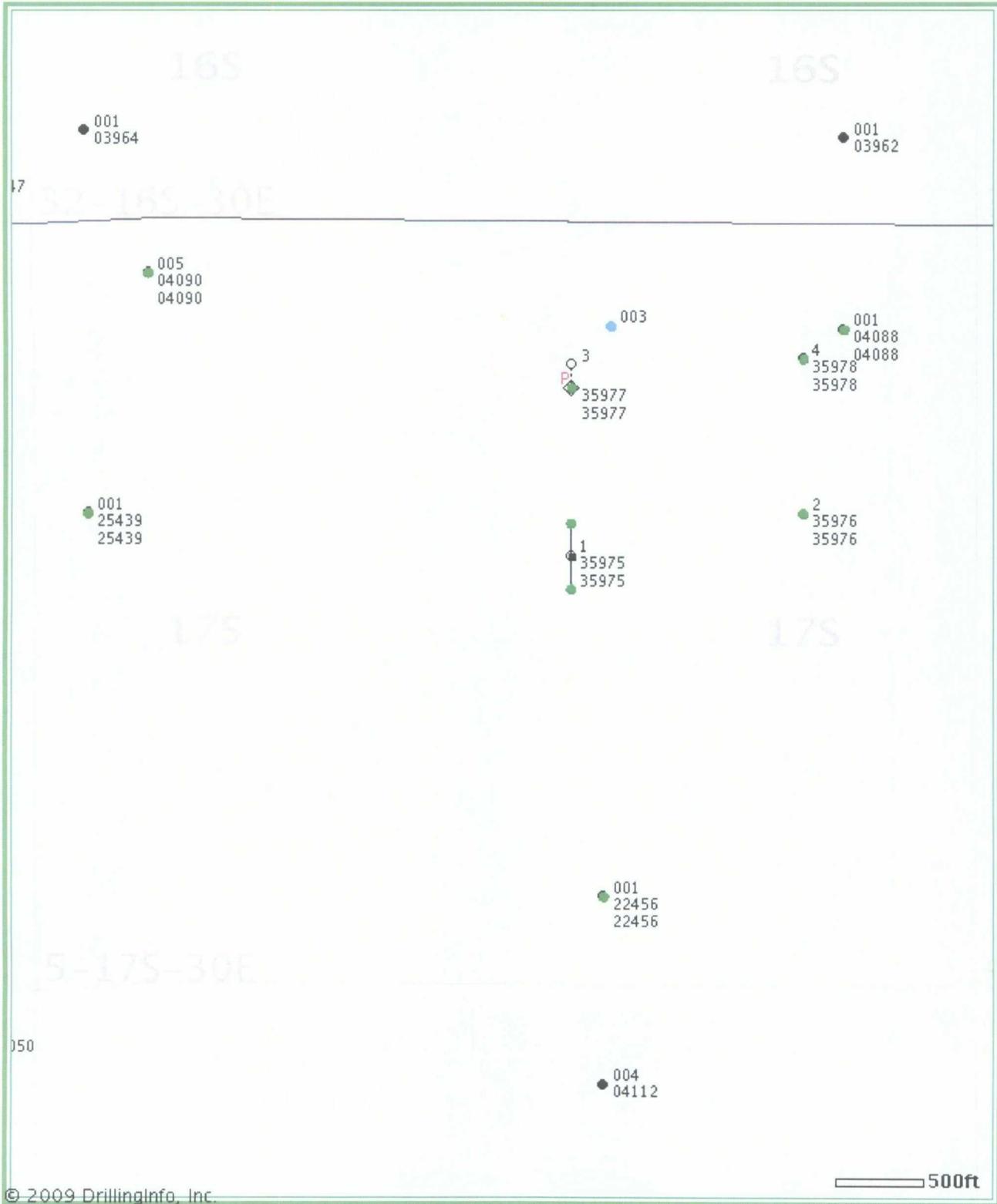
**CONCHO OIL AND GAS OPERATING, LLC**  
 GISSLER FED. UNIT # 29  
 LOCATED 1010 FT. FROM THE SOUTH LINE  
 AND 1040 FT. FROM THE EAST LINE OF SECTION 5  
 TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

MAY 11, 2009

## Offset Wells to Gissler Federal #29

API#	Operator	Lease	Well#	County	Legal	First Prod.	Last Prod.	Field Name	Reservoir Name	Total Depth	Well Type	Well Status
30-015-22456	COG OPERATING LLC	GISSLER FEDERAL	001	EDDY	S:5, T:17S, R:30E	Aug 1990	Jan 2009	SQUARE LAKE	GRAYBURG-SAN ANDRES	11,150	O	Pumping
30-015-04088		EVANS	001	EDDY	S:5, T:17S, R:30E	Feb 1947	Oct 1978	SQUARE LAKE	GRAYBURG-SAN ANDRES		O	Active
30-015-00000		EVANS	003	EDDY	S:5, T:17S, R:30E			SQUARE LAKE	GRAYBURG-SAN ANDRES		AP	PreOngard
30-015-04090		DEKALB FEDERAL	005	EDDY	S:5, T:17S, R:30E	May 1959	Dec 1963	SQUARE LAKE	GRAYBURG-SAN ANDRES		O	Active
30-015-25439		FALCON FEDERAL	001	EDDY	S:5, T:17S, R:30E			SQUARE LAKE	GRAYBURG-SAN ANDRES	4,000	O	Active
30-015-35975	MACK ENERGY CORP	RED BLUFF FEDERAL	1	EDDY	S:5, T:17S, R:30E	Mar 2008	Feb 2009	LOCO HILLS	PADDOCK	5,830	O	Active Permit
30-015-35976	MACK ENERGY CORP	RED BLUFF FEDERAL	2	EDDY	S:5, T:17S, R:30E			LOCO HILLS	PADDOCK	6,500	PO	Active Permit
30-015-35977	MACK ENERGY CORP	RED BLUFF FEDERAL	3	EDDY	S:5, T:17S, R:30E			LOCO HILLS	PADDOCK	6,500	PO	Active Permit
30-015-35978	MACK ENERGY CORP	RED BLUFF FEDERAL	4	EDDY	S:5, T:17S, R:30E			LOCO HILLS	PADDOCK	6,500	PO	Active Permit
30-015-35975	MACK ENERGY CORP	RED BLUFF FEDERAL	1	EDDY	S:5, T:17S, R:30E			LOCO HILLS; GLORIETA YESO	PADDOCK	5,830	O	Active Permit

### Offset Wells to Gissler Federal #29



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**Brooks, David K., EMNRD**

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**From:** Robyn Odom [rodom@conchoresources.com]  
**Sent:** Thursday, May 28, 2009 9:51 AM  
**To:** Brooks, David K., EMNRD  
**Cc:** Phyllis Edwards  
**Subject:** Gissler Federal #29 NSL  
**Attachments:** Gissler Federal 29 corrected plat.pdf

Dear Mr. Brooks,

I recently sent you an NSL application for the Gissler Federal #29. The company name on the plat that was submitted with it is incorrect. I am attaching a corrected plat to this email. Could you please replace the plat in the application with this plat. Please let me know if you need any more information in the approval of this application.

Thank you,

ROBYN ODOM  
Regulatory Analyst



COG Operating LLC  
Fasken Tower II  
550 W. Texas Avenue, Suite 1300  
Midland, TX 79701  
432-685-4385 P  
[rodom@conchoresources.com](mailto:rodom@conchoresources.com)

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District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
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<sup>7</sup> OGRID No. 229137	<sup>8</sup> Operator Name COG OPERATING LLC	<sup>9</sup> Elevation 3698.1'

<sup>10</sup>Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	17 S.	30 E.		1010	SOUTH	1040	EAST	EDDY

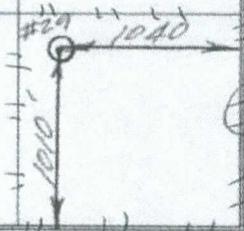
<sup>11</sup>Bottom Hole Location If Different From Surface

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

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

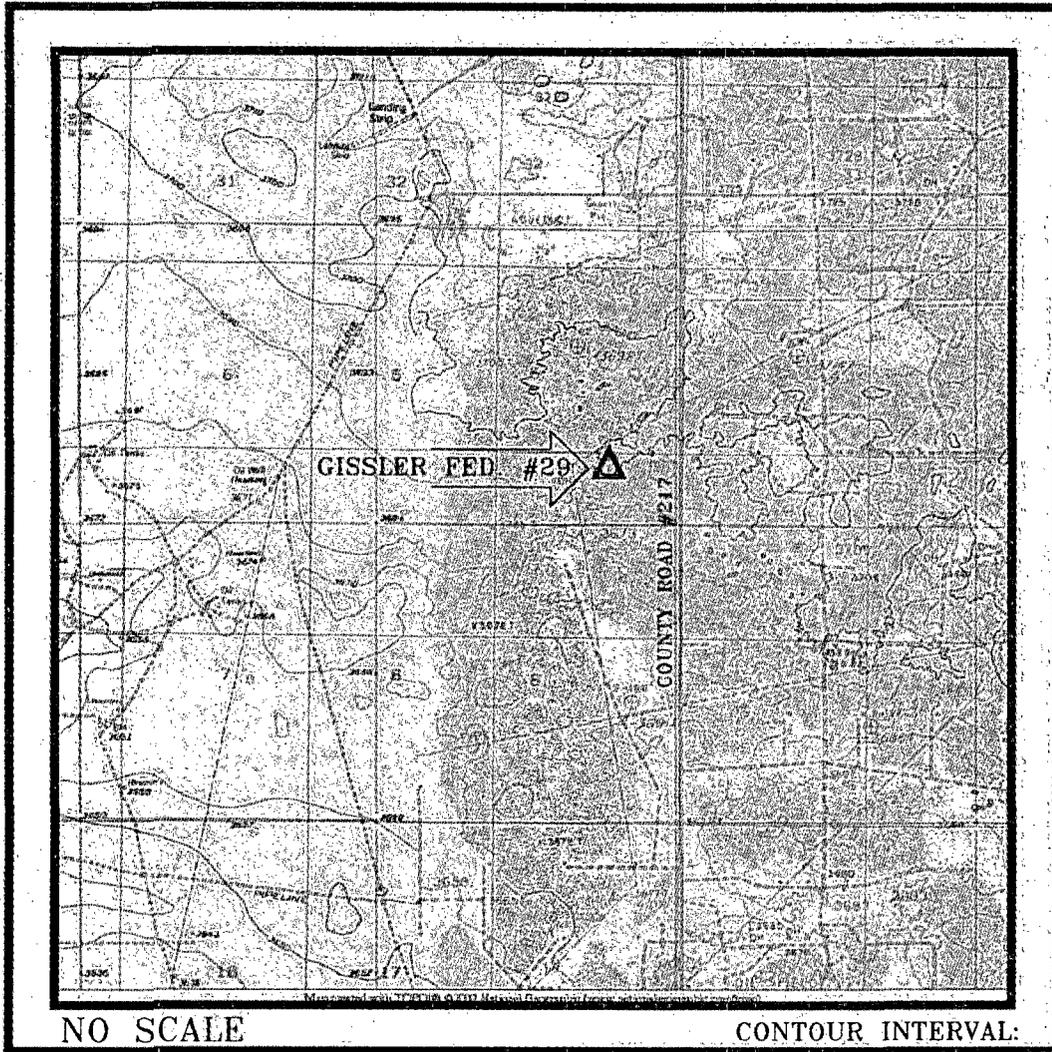
16										<p><sup>17</sup><b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>Robyn Odom</i> Date: 5/28/09</p> <p>Printed Name: Robyn Odom</p>
										<p><sup>18</sup><b>SURVEYOR CERTIFICATION</b> 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>Date of Survey: MAY 11, 2009</p> <p>Signature and Seal of Professional Surveyor: <i>Vicente Jaramillo</i></p> <p>Certificate Number: VICENTE F. JARAMILLO 12797 MADRON SURVEYING, INC.</p>



SURVEY N 2008

SECTION 5, TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

# LOCATION VERIFICATION MAP



**DIRECTIONS TO LOCATION**

FROM U.S. HIGHWAY 82 AND COUNTY ROAD #217  
 HAGERMAN CUTOFF GO NORTH 2.7 MILES ON COUNTY  
 ROAD #217 AND TURN LEFT ON CALIECHE LEASE ROAD  
 THEN GO WEST 0.2 MILES AND LOCATION IS ON THE  
 RIGHT (NORTH) APPROX. 200'

SEC. 5 TWP. 17-S RGE. 30-E  
 SURVEY N.M.P.M.  
 COUNTY EDDY STATE NEW MEXICO  
 DESCRIPTION 1010' FSL & 1040' FEL  
 ELEVATION 36981  
 OPERATOR C.O.G. OPERATING, LLC  
 LEASE GISSLER

**COG OPERATING LLC**  
**GISSLER FED. UNIT # 29**  
 LOCATED 1010 FT. FROM THE SOUTH LINE  
 AND 1040 FT. FROM THE EAST LINE OF SECTION 5  
 TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 MAY 11, 2009

**Brooks, David K., EMNRD**

---

**From:** Brooks, David K., EMNRD  
**Sent:** Wednesday, June 03, 2009 9:55 AM  
**To:** 'Robyn Odom'  
**Subject:** Gissler #29; NSL Application

Dear Ms. Odom

Your application for this well states that the acreage encroached on is "the SW/4 SW/4, the NW/4 SW/4 and the NE/4 SW/4." This would appear to be a typo in that the well is located in Unit P, in the SE/4 SE/4.

Please confirm that interests are identical throughout the SE/4 of Section 5.

Thanks

David Brooks

**Brooks, David K., EMNRD**

---

**From:** Robyn Odom [rodod@conchoresources.com]  
**Sent:** Wednesday, June 03, 2009 10:05 AM  
**To:** Brooks, David K., EMNRD  
**Cc:** Phyllis Edwards  
**Subject:** RE: Gissler #29; NSL Application

Dear Mr. Brooks,

You are correct that is a typo. It should say that we are encroaching on the SW/4 SE/4, NW/4 SE/4 & NE/4 SE/4. COG owns the offset acreage in the S/2 of Section 5. Please let me know if I need to send you an amended application letter or any more information for the approval of this application.

Thank you,

Robyn Odom  
X14385

---

**From:** Brooks, David K., EMNRD [mailto:david.brooks@state.nm.us]  
**Sent:** Wednesday, June 03, 2009 10:55 AM  
**To:** Robyn Odom  
**Subject:** Gissler #29; NSL Application

Dear Ms. Odom

Your application for this well states that the acreage encroached on is "the SW/4 SW/4, the NW/4 SW/4 and the NE/4 SW/4." This would appear to be a typo in that the well is located in Unit P, in the SE/4 SE/4.

Please confirm that interests are identical throughout the SE/4 of Section 5.

Thanks

David Brooks

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