

## DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

## DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

## State of New Mexico

## Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-101

Revised February 10, 1999

Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copy

Fee Lease - 5 Copy

☐ AMENDED REPORT

## APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUG BACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address CHEVRON USA INC 15 SMITH RD, MIDLAND, TX 79705		<sup>2</sup> OGRID Number 4323
		<sup>3</sup> API Number 30-025-24763
<sup>4</sup> Property Code 2597	<sup>5</sup> Property Name R.E. COLE A	<sup>6</sup> Well No. 15

<sup>7</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
L	16	22-S	37-E		1980'	SOUTH	825'	WEST	LEA

<sup>8</sup> Proposed 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>9</sup> Proposed Pool 1 PENROSE SKELLY GRAYBURG					<sup>10</sup> Proposed Pool 2				

<sup>11</sup> Work Type Code P	<sup>12</sup> WellType Code O	<sup>13</sup> Rotary or C.T. ROTARY	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3400' GL
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 6700'	<sup>18</sup> Formation GRAYBURG	<sup>19</sup> Contractor	<sup>20</sup> Spud Date 2/28/2006

<sup>21</sup> Proposed Casing and Cement Program

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
NO CHANGE					

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

CHEVRON U.S.A. INC. INTENDS TO RECOMPLETE THE SUBJECT WELL FROM THE EUNICE, SAN ANDRES, SW, TO THE PENROSE SKELLY GRAYBURG.

AFTER THE GRAYBURG IS RECOMPLETED, THE CIBP WILL BE REMOVED, AND THE EUNICE SAN ANDRES & THE GRAYBURG WILL BE DOWNHOLE COMMINGLED. ADMINISTRATIVE APPROVAL IS BEING SOUGHT FROM NMCD IN SANTA FE. (COPY ATTACHED).

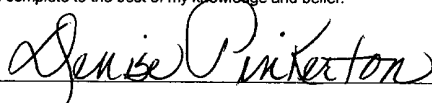
A PIT WILL NOT BE USED FOR THIS RECOMPLETION. A STEEL FRAC TANK WILL BE UTILIZED.

THE INTENDED PROCEDURE, AND CURRENT AND PROPOSED WELLBORE DIAGRAMS ARE ATTACHED FOR YOUR APPROVAL.

Permit Expires 1 Year From Approval  
Date Unless Being Underway

<sup>23</sup> I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature



Printed Name

Denise Pinkerton

Title

Regulatory Specialist

Date

2/13/2006

Telephone

432-687-7375

## OIL CONSERVATION DIVISION

Approved By:

Title:

PETROLEUM ENGINEER

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

MAR 02 2006

RE Cole A #15  
API #30-025-24763  
1980' FSL & 825' FWL  
S16, T22S, R37E  
Penrose Skelly/Eunice San Andres Southwest  
Lea County, New Mexico

2/8/2006

## PROCEDURE

**Use 8.6 ppg brine water. Do not exceed 500 psi on casing due to squeeze perfs at 1175'.**

1. Displace flowline w/ fresh water. Have Field Specialist close valve at header. Pressure test line according to type. All polypipe (SDR7 and SDR11) will be tested to 100 psi. All steel lines will be tested to 500 psi. If a leak is found, contact Donnie Ives for repair/replacement. If tests good, bleed off pressure and open valve at header. Document this process in the morning report.
2. MIRU Key PU & RU. Unseat pump and POOH w/ rods (see Tbg Detail). Install BOP's & EPA equipment. Test BOP when possible. Release TAC & POOH w/ 2-7/8" production tbg (see Tbg Detail).
3. PU 4-3/4" bit & 2-7/8" WS. RIH to 5352' (PBTD). POOH & LD bit.
4. RIH w/ 5-1/2" pkr on 2-7/8" WS. Set pkr @ 3600'. Load and test csg to 400 psi. POOH.
5. Perforate the following intervals with 3-1/8" slick guns loaded w/ 4 JSPF, 120 degree phasing and 23 gram charges tied back to Welex's Gamma Collar Perforation Record dated 8/2/74. RD Baker Atlas WL.

Top Perf	Bottom Perf	Net Feet	Total Holes
3624	3631	7	28
3637	3641	4	16
3647	3650	3	12
3664	3672	8	32
3675	3680	5	10
3685	3690	5	10
3693	3700	7	14
3709	3712	3	6
3730	3740	10	20
3749	3752	3	6
3760	3762	2	4

6. RIH w/ 5-1/2" PPI packer w/ 12' element spacing & SCV. Test 2-7/8" WS to 4500 psi while RIH. Test PPI packer in blank pipe. Mark settings.
7. MIRU DS. Selectively acidize new perf intervals w/ 15% NEFE HCl acid at a max rate of 1/2 BPM & 4000 psi surface pressure as follows:

Perf Status	Perfs	Acid Volume	Max Rate	PPI Setting
New	3624-3631	200 gals	1/2 bpm	3623-3635
New	3637-3641	200 gals	1/2 bpm	3633-3645
New	3647-3650	200 gals	1/2 bpm	3645-3657
New	3664-3672	200 gals	1/2 bpm	3661-3673
New	3675-3680	200 gals	1/2 bpm	3672-3684
New	3685-3690	200 gals	1/2 bpm	3680-3692
New	3693-3700	200 gals	1/2 bpm	3692-3704
New	3709-3712	200 gals	1/2 bpm	3705-3717
New	3730-3740	200 gals	1/2 bpm	3729-3741
New	3749-3752	200 gals	1/2 bpm	3745-3757
New	3760-3762	200 gals	1/2 bpm	3756-3768

Displace acid w/ 8.6# brine to 3624'. Record ISIP, 5, and 10 SIP. RD DS. **If communication occurs during treatment, attempt to put away stage without exceeding 500 psi csg pressure. If stage can not be completed move to next and combine stage volumes.**

8. SI well for 2 hrs for acid to spend. Release PPI & PU above top perf. RU swab and swab back load before SION if possible. Record volumes, pressures, & fluid levels. Discuss results with Engineering. If excessive water is produced, selectively swab perf intervals as discussed w/ engineer.
9. POOH w/ PPI and LD. RIH w/ 5-1/2" frac pkr, on/off tool and profile on 3-1/2" WS testing to 8500 psi while RIH. Set packer @ +/- 3500'. Install frac head. Pressure test BS to 400 psi. Hold 350 psi on BS during frac job and observe for communication.
11. MI & RU DS Services. Frac well down 3 1/2" frac string at **40 BPM** with 88,000 gals of YF130, 176,000 lbs. 16/30 mesh Jordan Sand, and 30,000 lbs **resin-coated** 16/30 mesh CR1630 proppant. Observe a maximum surface treating pressure of **8500 psi**. Pump job as follows:

Pump 2,000 gals 2% KCL water containing 55 gals Baker RE 4777-SCW Scale Inhibitor

Pump 1,000 gals 2% KCL water spacer at **20 BPM**

Pump 14,000 gals YF130 pad containing 5 GPT J451 Fluid Loss Additive at **40 BPM**

Pump 14,000 gals YF130 containing 0.5 PPG 16/30 mesh Jordan Sand & 5 GPT J451 FL Additive

Pump 12,000 gals YF130 containing 1.5 PPG 16/30 mesh Jordan Sand

Pump 12,000 gals YF130 containing 2.5 PPG 16/30 mesh Jordan Sand

Pump 14,000 gals YF130 containing 3.5 PPG 16/30 mesh Jordan Sand

Pump 16,000 gals YF130 containing 4.5 PPG 16/30 mesh Jordan Sand

Pump 6,000 gals YF130 containing 5 PPG **resin-coated** 16/30 mesh CR1630 proppant.

Flush to 3624' with WF130. **Do not overflush.** Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release DS Services. **Leave well SI overnight for resin to heal.**

10. Open well and bleed off any pressure. RU swab and swab well checking for sand inflow. Discuss results w/ engineer. RD swab.

11. Release Pkr and POOH. RIH w/ 4-3/4" bit on WS & tag for fill. PU 50' above top perf. Shut-in backside.
12. MIRU pump truck. Pump down tbh w/ 50 bbls 8.6 PPG cut brine water containing 110 gals Baker RE-4777 Scale Inhibitor followed by 200 bbls 8.6 PPG cut brine water @ 5 BPM & 2500 psi max pressure. RD pump truck. POOH & LD bit & WS.
13. RIH w/ 2-7/8" production tbh & hang off as per ALS recommendation. NDBOP NUWH.
14. RD Key PU & Smith RR. Turn well over to production. Contact Lease Operator and inform them that the well is ready for operation.

Engineer - Keith Lopez  
432-687-7120 Office  
432-631-3281 Cell  
432-661-6156 Home

Well: **R. E. Cole (NCT-A) # 15**

Field: **Eunice; San Andres, SW**

Reservoir: **San Andres**

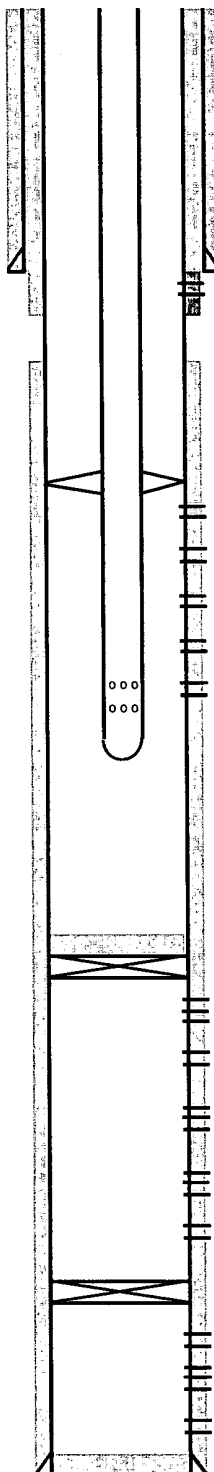
**Location:**

1980' FSL & 825' FWL  
Section: 16  
Township: 22S  
Range: 37E  
County: Lea State: NM

**Elevations:**

GL: 3400'  
KB: 3412'  
DF: 3411'

**Current  
Wellbore Diagram**



**Well ID Info:**

Chevno: EO0014  
API No: 30-025-24763  
L5/L6: LB10100  
Spud Date: 7/6/74  
Compl. Date: 8/2/74

**Surface Csg:** 8 5/8", 24#, K-55  
**Set:** @ 1144' w/ 600 sks  
**Hole Size:** 12 1/4"  
**Circ:** Yes **TOC:** Surface  
**TOC By:** Circulated

**Blk Sqz Perfs @ 1175'**  
(Sqzd w/ 300 sks on 7/13/81.  
Cmt circ to surface.)

Perfs:	Status:
3766-72'	San Andres - Open
3784-86'	San Andres - Open
3795-99'	San Andres - Open
3809-11'	San Andres - Open
3820-23'	San Andres - Open
3843-45'	San Andres - Open
3855-57'	San Andres - Open
3863-65'	San Andres - Open
3870-74'	San Andres - Open
3892-93'	San Andres - Open
3903-05'	San Andres - Open
3915-17'	San Andres - Open
3922-24'	San Andres - Open

**CIBP @ 5376'**  
(24' cmt on top)

5459-61'	Blinebry - Below CIBP
5472-74'	Blinebry - Below CIBP
5488-90'	Blinebry - Below CIBP
5501-03'	Blinebry - Below CIBP
5516-18'	Blinebry - Below CIBP
5528-30'	Blinebry - Below CIBP
5546-48'	Blinebry - Below CIBP
5580-82'	Blinebry - Below CIBP

**CIBP @ 6340'**

6398-6400'	Drinkard - Below CIBP
6467-69'	Drinkard - Below CIBP
6494-96'	Drinkard - Below CIBP
6520-22'	Drinkard - Below CIBP
6548-50'	Drinkard - Below CIBP
6570-72'	Drinkard - Below CIBP

**COTD:** 5352'  
**PBTD:** 5352'  
**TD:** 6700'

**Prod. Csg:** 5 1/2", 14#, 15.5#, & 17#, K-55 & N-80  
**Set:** @ 6700' w/ 750 sks  
**Hole Size:** 7 7/8"  
**Circ:** No **TOC:** 2330'  
**TOC By:** Temperature Survey

**Updated:** 4/27/2000

**By:** A. M. Howell

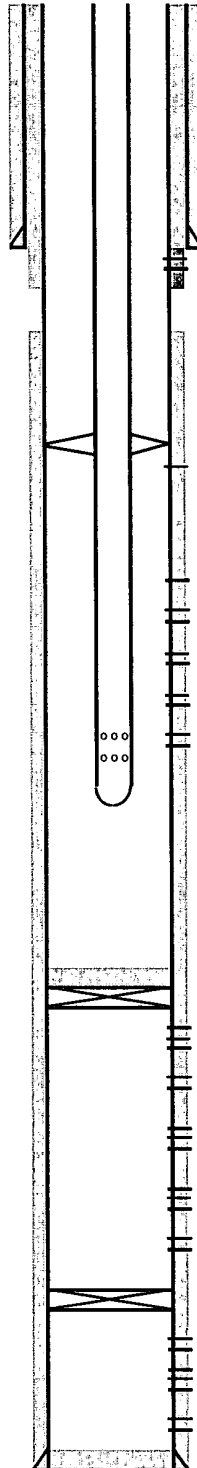
Well: **R. E. Cole (NCT-A) # 15**

Field: Eunice; San Andres, SW/Penrose Skell Reservoir: Grayburg/San Andre

**Location:**  
1980' FSL & 825' FWL  
Section: 16  
Township: 22S  
Range: 37E  
County: Lea State: NM

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**Proposed**  
**Wellbore Diagram**



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API No: 30-025-24763  
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**Hole Size:** 12 1/4"  
**Circ:** Yes **TOC:** Surface  
**TOC By:** Circulated

**Blk Sqz Perfs @ 1175'**  
(Sqzd w/ 300 sks on 7/13/81.  
Cmt circ to surface.)

Perfs:	Status:
3624-31'	Grayburg - Open
3637-41'	Grayburg - Open
3647-50'	Grayburg - Open
3664-72'	Grayburg - Open
3675-80'	Grayburg - Open
3685-90'	Grayburg - Open
3693-3700'	Grayburg - Open
3709-12'	Grayburg - Open
3730-40'	Grayburg - Open
3749-52'	Grayburg - Open
3760-62'	Grayburg - Open
3766-72'	San Andres - Open
3784-86'	San Andres - Open
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**Set:** @ 6700' w/ 750 sks  
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**CIBP @ 5376'**  
(24' cmt on top)

**CIBP @ 6340'**

**COTD:** 5352'  
**PBTD:** 5352'  
**TD:** 6700'

**Updated:** 1/11/2006

**By:** Keith Lopez

### Tubing Landing Details

[illegible]

**District I**  
1625 N. French Dr., Hobbs, NM 88240

**District II**  
811 South First, Artesia, NM 88210

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410

**District IV**  
2040 South Pacheco, Santa Fe, NM 87505

**State of New Mexico**  
**Energy, Minerals & Natural Resources Department**

**Form C-102**  
**Revised March 17, 1999**

**OIL CONSERVATION DIVISION**

**2040 South Pacheco**  
**Santa Fe, NM 87505**

**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 30-025-24763	<sup>2</sup> Pool Code 50350	<sup>3</sup> Pool Name Penrose Skelly; Grayburg
<sup>4</sup> Property Code 2597	<sup>5</sup> Property Name RE Cole A	<sup>6</sup> Well Number 15
<sup>7</sup> OGRID No. 4323	<sup>8</sup> Operator Name Chevron Corporation	<sup>9</sup> Elevation 3400'

**<sup>10</sup> Surface Location**

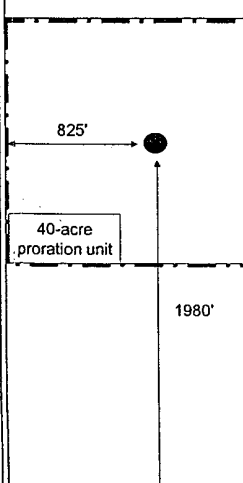
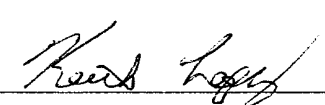
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	16	22S	37E		1980'	South	825'	West	Lea

**<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**

<div>16</div> 	<div>15</div>	<b>OPERATOR CERTIFICATION</b>  <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>   Signature <b>Keith Lopez</b> Printed Name <b>Petr. Engineer</b> Title <b>January 11, 2006</b>
		<div>18</div> <b>SURVEYOR CERTIFICATION</b>  <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>  Signature and Seal of Professional Surveyor:    Certificate Number



 The sender of this message has requested a read receipt. [Click here to send a receipt.](#)

**Mull, Donna, EMNRD**

**From:** Phillips, Dorothy, EMNRD  
**To:** Mull, Donna, EMNRD  
**Cc:**  
**Subject:** RE: Financial Assurance Requirement  
**Attachments:**

**Sent:** Wed 3/1/2006 9:08 AM

Donna, Paladin has 9 Inactive wells and it owns 61 wells and they are allowed to have only 2 inactive wells - I am asking Gail about this one also.

Pogo has 719 wells and are allowed 7 wells and they have 15 inactive and are purchasing 23 inactive from Arch but they do not appear on Jane's list. I have asked Gail about Pogo to see if she has contacted them. The system has been updated so that whenever an operator tries to do an operator change if they are out of compliance with Rule 40 a Warning appears that they are out of compliance and to contact me. I refer them either to Gail or Daniel. They let me know when to proceed with the operator change. However, Pogo submitted the name change before this was in place. Will let you know what Gail says. All the rest are okay.

---

**From:** Mull, Donna, EMNRD  
**Sent:** Wednesday, March 01, 2006 7:42 AM  
**To:** Phillips, Dorothy, EMNRD  
**Subject:** Financial Assurance Requirement

Dorothy, These Operators have Intent to drill in District 1 for approval:

Trilogy Operating Inc, (21602)  
Range Operating New Mexico Inc. (227588)  
Marbob Energy Corp. (14049)  
Paladin Energy Corp. (164070)  
Energen Resources Corp (162928)  
Marathon Oil Co. (14021)  
BTA Oil Producers (3002)  
Northstar Operating Co. (152527)  
EverQuest Energy Corp (212929)  
Yates Petroleum Corp (35575)  
Arch Petroleum Inc, (962)  
Chevron USA Inc (4323)  
Pogo Producing Co. (17891)

Please check if the Financial Assurance Requirements are OK for these operators to drill. Thanks Donna