

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 Copie
Fee Lease - 5 Copie
☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address CHEVRON USA INC 15 SMITH RD, MIDLAND, TX 79705		² OGRID Number 4323
		³ API Number 30-025-22382
⁴ Property Code 2597	⁵ Property Name R.E. COLE NCT-A	⁶ Well No. 11

⁷ Surface Location									
Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
J	16	22-S	37-E		1980'	SOUTH	1980'	EAST	LEA

⁸ 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
⁹ Proposed Pool 1 PENROSE,SKELLY GRAYBURG					¹⁰ Proposed Pool 2				

¹¹ Work Type Code A	¹² WellType Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3394' GL
¹⁶ Multiple No	¹⁷ Proposed Depth 7260'	¹⁸ Formation GRAYBURG	¹⁹ Contractor	²⁰ Spud Date 8/30/2005

²¹ Proposed Casing and Cement Program

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

²² 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 SOUTHWEST POOL, TO THE PENROSE SKELLY GRAYBURG RESERVOIR.

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

THE CURRENT & PROPOSED WELLBORE DIAGRAMS, AS WELL AS THE INTENDED PROCEDURE, ARE ATTACHED FOR YOUR APPROVAL.
UPON COMPLETION TO THE GRAYBURG POOL, THE PLUG WILL BE REMOVED AND THE TWO ZONES WILL BE DOWNHOLE COMMINGLED.
REFER TO ADMINISTRATIVE ORDER DHC-3481 (ATTACHED)

Permit Expires 1 Year From Approval
Date Unless Drilling Underway
Adding

²³ 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 Denise Pinkerton

Printed Name Denise Pinkerton

Title Regulatory Specialist

Date 8/30/2005

Telephone 432-687-7375

OIL CONSERVATION DIVISION

Approved By:

Title:

Approval Date SEP 06 2005

Expiration Date:

PETROLEUM ENGINEER

Conditions of Approval:
Attached ☐

Well: **R E Cole A #11**

Reservoir: **San Andres**

Location:
1980' FSL & 1980' FEL
Section: 16
Township: 22S
Range: 37E
County: LEA, NM.

Elevations:
GL: 3394'
DF: 3408'
KB: 3409'
KB= 15'

**Current
Wellbore Diagram**

Well ID Info:
Refno: FG2960
API No: 3002522382
L5/L6: LB10100
Spud Date:
Compl. Date:

Surf. Csg:
Size 9 5/8
Weight 32.2#
Set @ 1186'
With: 400 sxs
Hole Size: 12 1/4
Circ: yes
TOC @ Surface

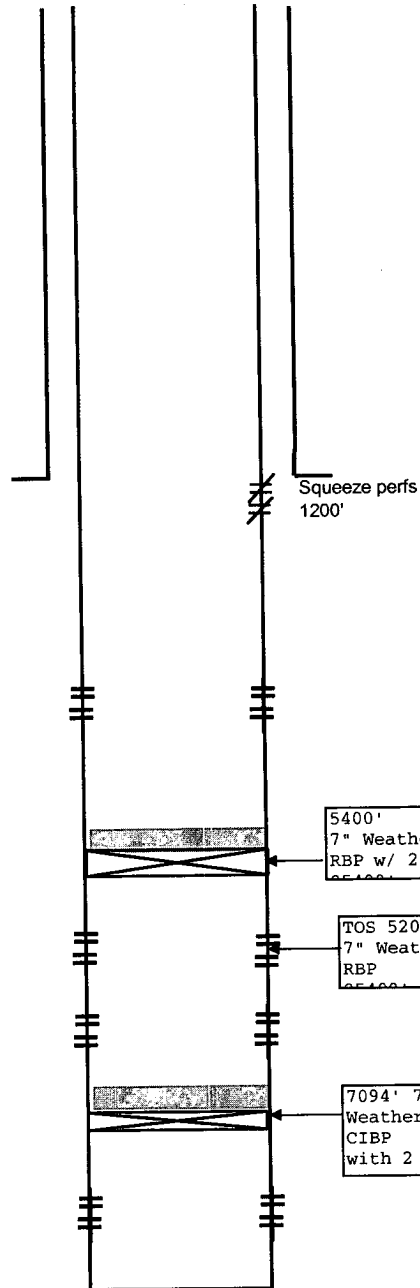
San Andres
Perfs: **Status**
3716' - 3964' Open

Blinebry
Perfs: **Status**
5454'-5716' Below RBP

Drinkard
Perfs: **Status**
6325'-6550' Below RBP

Montoya
Perfs: **Status**
7204'-7229' Below CIBP

COTD: 5204'
PBTD: 7094'
TD: 7260'



Prod. Csg:
Size 7"
Weight 20# & 23#
Set @ 7244'
With: 1150sxs
Hole Size: 8 3/4
Circ: 2210'Orig
TOC @ Surface

Updated: 31-May-05
By: Keith Lopez

Well: **R E Cole A #11**

Reservoir: **Grayburg/San Andres**

Location:
1980' FSL & 1980' FEL
Section: 16
Township: 22S
Range: 37E
County: LEA, NM.

Elevations:
GL: 3394'
DF: 3408'
KB: 3409'
KB= 15'

**Proposed
Wellbore Diagram**

Well ID Info:
Refno: FG2960
API No: 3002522382
L5/L6: LB10100
Spud Date:
Compl. Date:

Surf. Csg:
Size 9 5/8
Weight 32.2#
Set: @ 1186'
With: 400 sxs
Hole Size: 12 1/4
Circ: yes
TOC @ Surface

Grayburg
Perfs: **Status**
3650'-3716' Open

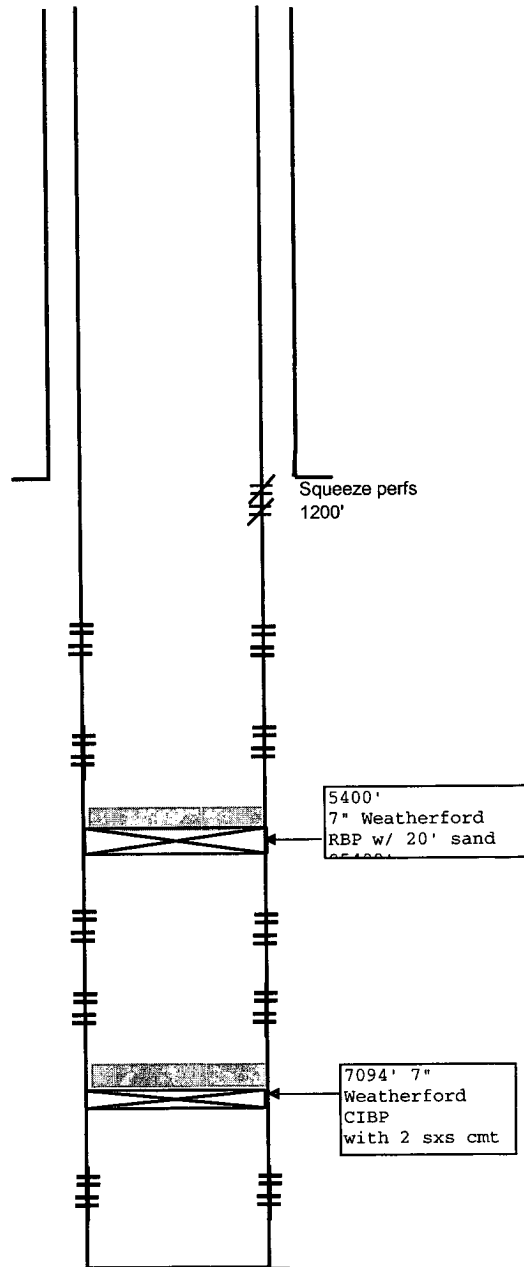
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Prod. Csg:
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Set @ 7244'
With: 1150sxs
Hole Size: 8 3/4
Circ: 2210'Orig
TOC @ Surface

Updated: 31-May-05
By: Keith Lopez

RE Cole A #11
API #30-025-22382
1980' FSL & 1980' FEL
S16, T22S, R37E
Penrose Skelly/Eunice San Andres Southwest
Lea County, New Mexico

8/9/2005

PROCEDURE

Use 8.6 ppg brine water. Do not exceed 500 psi on casing due to squeeze perfs at 1200'.

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 & Smith 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 6-1/8" bit & 2-7/8" WS. RIH to 5204' (COTD). POOH & LD bit.
4. RIH w/ 7" pkr on 2-7/8" WS. Set pkr @ 3600'. Load and test csg to 400 psi. POOH.
5. MIRU WL. RIH w/ GR/CPNL/CCL and log from COTD to surface. Fax log to engineer for perf picking. RIH w/ CBL/CCL and log from COTD to 100' above cmt top (it will not be possible to run log under pressure). If adequate cmt bond is not found across completion interval, discuss squeezing options w/ engineer and remedial engineer.
6. Perforate picked intervals with 4" Predator guns loaded w/ 4 JSPF, 120 degree phasing and 32 gram charges tied back to log run in previous step. RD Baker Atlas WL.
7. RIH w/ 7" PPI packer w/ SCV (spacing will depend on perf'd intervals). Test 2-7/8" WS to 4500 psi while RIH. Test PPI packer in blank pipe. Mark settings.
8. MIRU DS. Selectively acidize perf intervals w/ 15% NEFE HCl acid at a max rate of 1/2 BPM & 4000 psi surface pressure as directed after perfs are picked.

Displace acid w/ 8.6# brine to top perf. 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.**

9. 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.

10. POOH w/ PPI and LD. RIH w/ 7" 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. MIRU DS. Frac well down 3-1/2" tubing at **40 BPM** w/ 84,000 gals of YF130, 160,000 lbs. 16/30 mesh Jordan Sand, and 30,000 lbs **resin-coated** 16/30 mesh CR4000 proppant. Max treating pressure 8000 psi. Pump job as follows:
- Pump 2,000 gals 2% KCl water containing 110 gals Baker SCW-358 Scale Inhibitor
 - Pump 1,000 gal 2% KCl water spacer
 - Pump 14,000 gals YF130 pad containing 5 GPT J451 Fluid Loss Additive
 - Pump 14,000 gals YF130 pad containing 0.5 PPG 16/30 mesh Jordan Sand & 5 GPT J451 Fluid Loss 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 12,000 gals YF130 containing 3.5 PPG 16/30 mesh Jordan Sand
 - Pump 14,000 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 top perf. **Do not overflush.** SI well and record ISIP, 5, 10, and 15 minute SIP. RD DS. SION. RD DS.
12. Open well and bleed off any pressure. RU swab and swab well checking for sand inflow. Discuss results w/ engineer. RD swab.
13. Release Pkr and POOH. RIH w/ 6-1/8" bit on WS & tag for fill. PU 50' above top perf. Shut-in backside.
14. MIRU pump truck. Pump down tbg 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.
15. RIH w/ 2-7/8" production tbg & hang off as per ALS recommendation. NDBOP NUWH.
16. 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
303-949-3021 Home

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Revised February 10, 1999

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☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-025-22382	² Pool Code 50350	³ Pool Name PENROSE SKELLY GRAYBURG
⁴ Property Code 2597	⁵ Property Name R.E. COLE NCT-A	⁶ Well No. 11
⁷ OGRID Number 4323	⁸ Operator Name CHEVRON USA INC	⁹ Elevation 3394' GL

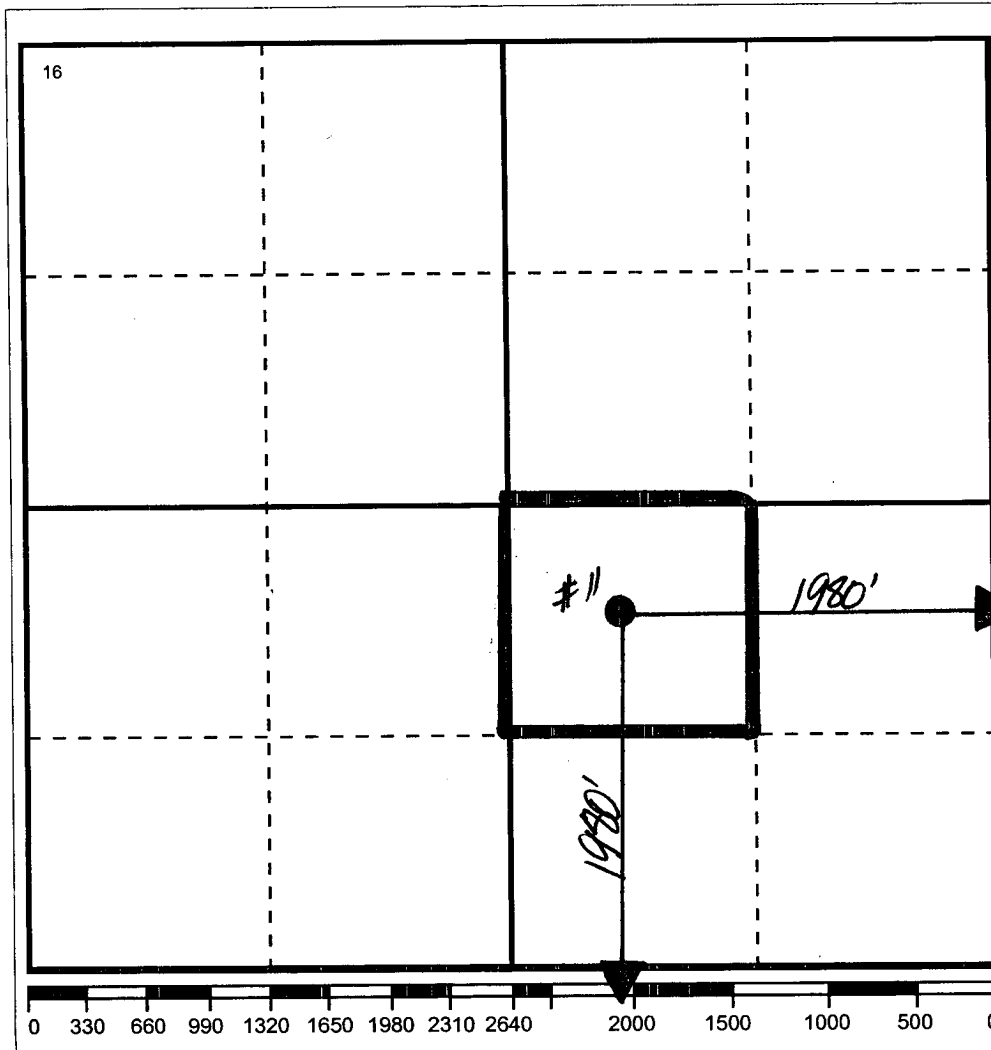
¹⁰ Surface Location

UI or lot no	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
J	16	22-S	37-E		1980'	SOUTH	1980'	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
¹² Dedicated Acre 40	¹³ Joint or Infill No	¹⁴ Consolidation Code	¹⁵ Order No. DHC-3481						

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

**17 OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature

Denise Pinkerton

Printed Name

Denise Pinkerton

Position

Regulatory Specialist

Date

8/30/2005

18 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 knowledge and belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.