Submit 3 copies to Appropriate District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Box Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

# OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-025-06830

5. Indicate Type of Lease STATE ☐ FEE ☑

6. State Oil / Gas Lease No.

## SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMI (FORM C-101) FOR SUCH PROPOSALS.

7. Lease Name or Unit Agreement Name: J.N. CARSON (NCT-A)

1. Type of Well: OIL WELL ☑ GAS WELL ☐ OTHER

2. Name of Operator: CHEVRON USA INC

8. Well No. 1

3. Address of Operator: 15 SMITH ROAD, MIDLAND, TX 79705

9. Pool Name or Wildcat: PENROSE SKELLY GRAYBURG

4. Well Location

Unit Letter K : 1980' Feet From The SOUTH Line and 1980' Feet From The WEST Line

Section 28 Township 21-S Range 37-E NMPM LEA COUNTY

10. Elevation (Show whether DF, RKB, RT,GR, etc.) 3452' GL

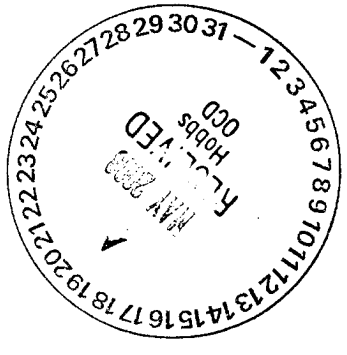
11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| PERFORM REMEDIAL WORK | ☐ | PLUG AND ABANDON | ☐ | REMEDIAL WORK | ☐ | ALTERING CASING | ☐ |
| TEMPORARILY ABANDON | ☐ | CHANGE PLANS | ☐ | COMMENCE DRILLING OPERATION | ☐ | PLUG AND ABANDONMENT | ☐ |
| PULL OR ALTER CASING | ☐ | | | CASING TEST AND CEMENT JOB | ☐ | | |
| OTHER: DRILL DEEPER IN GRAYBURG | ☑ | | | OTHER: | | | ☐ |

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

CHEVRON U.S.A. INC. INTENDS TO DRILL THE SUBJECT WELL DEEPER IN THE GRAYBURG FORMATION AND FRAC STIMULATE.

THE INTENDED PROCEDURE AND WELLBORE DIAGRAMS IS ATTACHED FOR YOUR APPROVAL.




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

SIGNATURE Denise Leake TITLE Regulatory Specialist DATE 5/16/2003

TYPE OR PRINT NAME Denise Leake Telephone No. 915-687-7375

(This space for State Use)

APPROVED Gary W. Wink TITLE OC FIELD REPRESENTATIVE II/STAFF MANAGER DATE MAY 21 2003

CONDITIONS OF APPROVAL, IF ANY:

DeSoto/Nichols 12-93 ver 1.0

**J. N. Carson (NCT-A) # 1**
**Penrose Skelly Field**
**T21S, R37E, Section 28**
**WBS # UWPNM-D3002-COM**
**Job: Drill Well Deeper In Grayburg Formation And Frac Stimulate**

**Procedure: (Frac Stimulate Grayburg, Revised 5/13/03)**

1. Displace flowline with fresh water. Have field specialist close valve at header. Pressure line according to the type of line. AGU, EMSU, and EMSUB buried fiberglass lines will be tested with 300 psi. All polypipe(SDR7 and SDR11) will be tested w/100 psi. All steel lines will be tested w/500 psi. If a leak is found, contact Larry Williams for repair/replacement. If test is good, bleed off pressure and **open valve** at header. Document this process in the morning report.

2. MI & RU pulling unit. Bleed pressure from well, if any. Pump down csg with 8.6 PPG cut brine water, if necessary to kill well. POH with rods and pump. Remove WH. Install BOP's and test to 1000 psi. POH with 2 7/8" tbg string. LD TAC.

3. PU 4 ¾" MT bit and GIH on 2 7/8" tbg string to TD at 3867'. If 10' or more fill is encountered, MI & RU foam unit(s). LD and cleanout to 3867' using foam. POH with 2 7/8" tbg string and MT bit. LD MT bit. RD & release foam unit(s).

4. PU and GIH w/ 5 1/2" Lok-Set pkr & On-Off tool w/ 2.25" "F" profile and 115 jts. of 3 ½" EUE 8R L-80 work string, testing to 7500 psi. Set pkr at approximately 3500'. Install frac head. Pressure annulus to 300 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication. **Note: Do not exceed 300 psi csg pressure due to cmt sqzd perfs at 1000' and 1250'.**

5. MI & RU DS Services. Frac well down 3 ½" tubing at **40 BPM** with 66,000 gals of YF135, 138,000 lbs. 16/30 mesh Jordan Sand, and 30,000 lbs **resin-coated** 16/30 mesh CR4000 proppant. Observe a maximum surface treating pressure of **7400 psi**. Pump job as follows:

   Pump 2,000 gals 2% KCL water containing 110 gals Baker SCW-358 Scale Inhibitor
   Pump 1,000 gals 2% KCL water spacer
   Pump 25,000 gals YF135 pad containing 5 GPT J451 Fluid Loss Additive
   Pump 5,000 gals YF135 containing **ramped** 1 - 2 PPG 16/30 mesh Jordan Sand
   Pump 6,000 gals YF135 containing **ramped** 2 - 3 PPG 16/30 mesh Jordan Sand
   Pump 7,000 gals YF135 containing **ramped** 3 - 4 PPG 16/30 mesh Jordan Sand
   Pump 8,000 gals YF135 containing **ramped** 4 - 5 PPG 16/30 mesh Jordan Sand
   Pump 10,000 gals YF135 containing **ramped** 5 - 6 PPG 16/30 mesh Jordan Sand
   Pump 5,000 gals YF135 containing 6 PPG **resin-coated** 16/30 mesh CR4000 proppant

Flush to 3543' with 1,321 gals WF135. **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.**

6. Open well. GIH and swab well to determine productivity and to check for sand production. **Note: Discuss swab results with Engineering.** Release pkr and POH with 3 ½" work string. Lay down 3 ½" work string and pkr.

7. PU 4 ¾" MT bit and GIH on 2 7/8" tbg string to TD at 3867'. If 10' or more sand fill is encountered, MI & RU foam unit(s) and cleanout to 3867' using foam. POH with 2 7/8" tbg string and MT bit. LD bit.

8. PU and GIH w/ BP mud anchor jt of 2 7/8" tbg, 2 7/8" x 4' perforated sub, SN, 8 jts 2 7/8" EUE 8R J-55 tbg, TAC, and 114 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Set TAC at 3535', with EOT at 3833' and SN at 3799'.

9. Remove BOP's and install WH. GIH with rods, weight bars, and pump per ALS recommended design. RD & release pulling unit.

10. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

AMH
5/13/2003

Well: **J. N. Carson (NCT-A) # 1** Field: **Penrose Skelly** Reservoir: **Grayburg**

**Location:**
1980' FSL & 1980' FWL
Section: 28
Township: 21S
Range: 37E
County: Lea State: NM

# Current
## Wellbore Diagram

**Well ID Info:**
Refno: FA7927
API No: 30-025-06830
L5/L6: U491400
Spud Date: 3/20/37
Compl. Date: 4/21/37

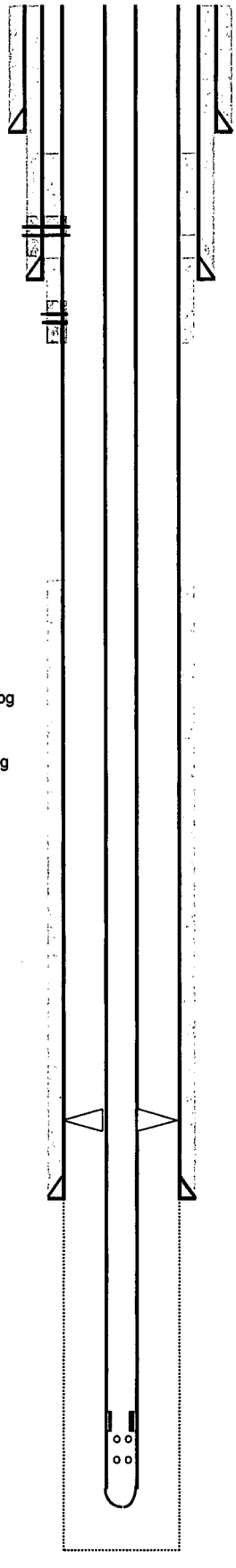
**Elevations:**
GL: 3452'
KB: 3462'
DF: 3461'

**Surf. Csg:** 13 3/8", 27.8# Armco SS
**Set:** @ 33' w/ 50 sks
**Hole Size:** 17"
**Circ:** Yes **TOC:** Surface
**TOC By:** Circulated

**Blk Sqz Perfs @ 1000'**
(Sqzd w/ 150 sks, TOC at 886' by TS)

**Interm. Csg:** 7 5/8", 22#, SCLW
**Set:** @ 1204' w/ 600 sks
**Hole Size:** 9 7/8"
**Circ:** Yes **TOC:** Surface
**TOC By:** Circulated

**Blk Sqz Perfs @ 1250'**
(Sqzd w/ 125 sks, TOC at 1082' by TS)



**Tbg Detail:**
BP @ 3833'
1 jt. 2 7/8" tbg
2 7/8" x 4' perf sub
SN @ 3799'
1 jt. 2 7/8" EUE 8R J-55 IPC tbg
7 jts. 2 7/8" EUE 8R J-55 tbg
TAC @ 3535'
114 jts. 2 7/8" EUE 8R J-55 tbg

**Prod. Csg:** 5 1/2", 17#, SCLW
**Set:** @ 3608' w/ 150 sks
**Hole Size:** 6 3/4"
**Circ:** No **TOC:** 2700'
**TOC By:** Calculated

**3608-3867'** **Grayburg - Open Hole**

**COTD:** 3863'
**PBTD:** 3867'
**TD:** 3867'

**Updated:** 5/13/03 **By:** A. M. Howell

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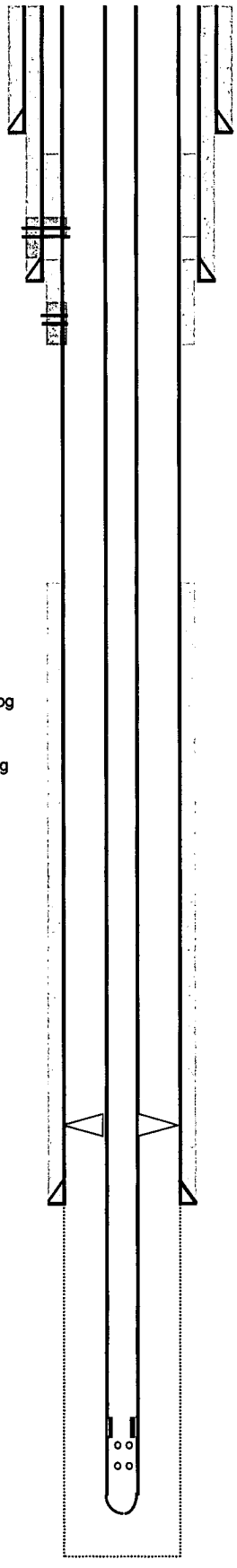
## Proposed
## Wellbore Diagram



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