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. 30-025-25112

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: H.T. MATTERN 'C'

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

2. Name of Operator: CHEVRON USA INC

8. Well No. 8

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

9. Pool Name or Wildcat: PENROSE SKELLY GRAYBURG

4. Well Location

Unit Letter A : 660' Feet From The NORTH Line and 447' Feet From The EAST Line

Section 18 Township 21-S Range 37-E NMPM LEA COUNTY

10. Elevation (Show whether DF, RKB, RT,GR, etc.) 3484'

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: RE-FRAC 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 RE-FRAC THE GRAYBURG FORMATION IN THE SUBJECT WELL. THIS WELL WAS COMPLETED IN THE GRAYBURG IN JUNE, 2005, AND HAS NOT PERFORMED AS EXPECTED.

THE CURRENT WELLBORE DIAGRAM AND THE INTENDED PROCEDURE ARE ATTACHED FOR YOUR APPROVAL.

JUL 2005 Received Hobbs OCD

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

SIGNATURE Denise Pinkerton TITLE Regulatory Specialist DATE 7/20/2005

TYPE OR PRINT NAME Denise Pinkerton Telephone No. 432-687-7375

(This space for State Use)

APPROVED Gary W. Wink TITLE OC FIELD REPRESENTATIVE II/STAFF MANAGER DATE JUL 25 2005

CONDITIONS OF APPROVAL, IF ANY:

DeSoto/Nichols 12-93 ver 1.0

Well: **H. T. Mattern (NCT-C) # 8** Field: **Penrose Skelly** Reservoir: **Grayburg**

Location:
660' FNL & 447' FEL
Section: 18
Township: 21S
Range: 37E
County: Lea State: NM

Elevations:
GL: 3484'
KB: 3498'
DF: 3497'

Current Wellbore Diagram

Well ID Info:
Chevno: EO6538
API No: 30-025-25112
L5/L6: UCU491800
Spud Date: 10/22/75
Compl. Date: 12/8/75

Surface Csg: 8 5/8", 24#, K-55
Set: @ 1278' w/ 500 sks
Hole Size: 11"
Circ: Yes **TOC:** Surface
TOC By: Circulated

Perfs:	Status:
3717-3722	Grayburg-Opened
3727-3729	Grayburg-Opened
3734-3737	Grayburg-Opened
3743-3752	Grayburg-Opened
3777-3785	Grayburg-Opened
3811-3815	Grayburg-Opened
3820-3824	Grayburg-Opened
3832-3837	Grayburg-Opened
3850-3856	Grayburg-Opened
3886-3894	Grayburg-Opened
3898-3901	Grayburg-Opened
3918-3924	Grayburg-Opened
3946-3949	Grayburg-Opened

Tbg Detail:

RBP @ 5470 w/ 20 sand

Perfs:	Status:
5507-09'	Blinebry - Sqz'd
5575-77'	Blinebry - Sqz'd
5638-40'	Blinebry - Sqz'd
5693-95'	Blinebry - Sqz'd
5762-64'	Blinebry - Sqz'd
5800-02'	Blinebry - Sqz'd

6464-66'	Drinkard - Sqz'd
6510-12'	Drinkard - Sqz'd
6596-98'	Drinkard - Sqz'd
6634-36'	Drinkard - Sqz'd
6658-60'	Drinkard - Sqz'd
6679-81'	Drinkard - Sqz'd
6706-08'	Drinkard - Sqz'd

COTD: 7291'
PBTD: 7291'
TD: 7291'

Updated: 2/7/2005
By: Keith Lopez

Prod. Csg: 5 1/2", 15.5#, K-55
Set: @ 6795' w/ 750 sks
Hole Size: 7 7/8"
Circ: No **TOC:** 2260'
TOC By: Temperature Survey

Open-Hole
6795'-7291' ABO

H T Mattern C #8 **7/18/2005**
API #30-025-25112
660' FNL & 447' FEL
S18, T21S, R37E
Penrose Skelly
Lea County, New Mexico

PROCEDURE

Use 8.6 ppg brine water.

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 Larry Williams 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. Bleed any pressure off well. Use 8.6 ppg brine water to kill well if necessary. POOH w/ rods & pump (see Tbg Detail). NDWH NUBOP & EPA equipment. Test BOP when possible. Release TAC & POOH w/ 2-7/8" Tbg (see Tbg Detail).

3. RIH w/ 4-3/4" bit on 2-7/8" WS to 5000'. POOH & LD bit.

4. RIH w/ 5-1/2" RBP & Pkr. Set RBP @ 3707'. PU & set pkr & 3680'. Load & test RBP to 1000 psi. Load and test csg to 500 psi. Discuss results to engineer. If csg will not test discuss squeezing options with engineer.

5. Release Pkr, PU, & set @ 3600'. Load and test BS to 500 psi. RU swab and swab well recording volumes, pressures, and fluid levels. Discuss results with engineer.

6. Release pkr. RIH & retrieve RBP. RIH & set RBP @ 3870'. PU & set pkr. Load and test RBP to 500 psi. PU pkr & set @ 3700'. RU swab and swab well recording volumes, pressures, and fluid levels. Discuss results with engineer.

7. Release pkr & retrieve RBP. RIH & set pkr @ 3870'. RU swab and swab well recording volumes, pressures, and fluid levels. Discuss results with engineer.

8. Release pkr & POOH w/ RBP & pkr **(depending on swab results, RBP may be left in hole)**. RIH w/ 5-1/2" mechanical set frac pkr, on/off tool, 2 jnts 3-1/2" 9.3# tbg, 5-1/2" hydrolically set pkr on 3-1/2" frac string testing in the hole to 8500 psi. Set mechanical set frac pkr @ 3690'. Set hydrolic pkr @ +/- 3626'. Load & test BS to 500 psi.

9. MIRU DS. Frac well down 3-1/2" tubing at **40 BPM** w/ 67,000 gals of YF130, 145,000 lbs. 16/30 mesh Jordan Sand, and 30,000 lbs **resin-coated** 16/30 mesh CR4000 proppant.

Max treating pressure 8000 psi. **Tag Frac using 3 isotopes (1st in .5 ppg pad, 2nd in main body of sand, and 3rd in resin coated stage).** Pump job as follows:

Pump 2,000 gals 1% KCl water containing 110 gals Baker SCW-358 Scale Inhibitor
Pump 1,000 gal 1% KCl water spacer
Pump 14,000 gals YF130 pad containing 5 GPT J451 Fluid Loss Additive
Pump 14,000 gals YF130 pad containing .5 PPG 16/30 mesh Jordan Sand & 5 GPT J451 Fluid Loss Additive
Pump 5,000 gals YF130 containing 1.5 PPG 16/30 mesh Jordan Sand
Pump 6,000 gals YF130 containing 2.5 PPG 16/30 mesh Jordan Sand
Pump 7,000 gals YF130 containing 3.5 PPG 16/30 mesh Jordan Sand
Pump 8,000 gals YF130 containing 4.5 PPG 16/30 mesh Jordan Sand
Pump 10,000 gals YF130 containing 5.5 PPG 16/30 mesh Jordan Sand
Pump 5,000 gals YF130 containing 6 PPG resin-coated 16/30 mesh CR4000 proppant

Flush to 3717'. **Do not overflush.** SI well and record ISIP, 5, 10, and 15 minute SIP. RD DS. SION. RD DS.

10. Open well and bleed off any pressure (kill well w/ 8.6# brine if necessary). Release packers and POOH. RIH w/ 4-3/4" bit & tag for fill. POOH & LD bit.

11. RIH w/ 5-1/2" pkr w/ profile nipple and on/off tool on 2-7/8" WS. Set pkr @ +/- 3640'. RU swab and swab well checking for sand inflow. Discuss results w/ engineer. RD swab.

12. MIRU WL and conduct after frac log across interval. RD WL. Release pkr & POOH. LD pkr & WS.

13. RIH w/ 2-7/8" production tbg & hang off as per ALS recommendation. NDBOP NUWH. RIH w/ sub pump or rods & pump as per ALS recommendation.

14. RD Key PU & Smith RR. Turn well over to production. Contact Lease Operator and inform them that the well is ready for operation.