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. 30-025-25246

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 NCT-B

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

2. Name of Operator: CHEVRON USA INC

8. Well No. 22

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

9. Pool Name or Wildcat: BLINEBRY OIL AND GAS (OIL)

4. Well Location
Unit Letter B : 785' Feet From The NORTH Line and 2310' Feet From The EAST Line
Section 31 Township 21-S Range 37-E NMPM LEA COUNTY

10. Elevation (Show whether DF, RKB, RT,GR, etc.) 3496' 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:	ADD PERFS IN BLINEBRY & FRAC		☑	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 ADD PERFS IN THE BLINEBRY FORMATION TO INCREASE PRODUCTION. THE PERFS WILL THEN BE FRAC STIMULATED.

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

24 25 26 27 28 29 30 31 — 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
FEB 2007
Received
Hobbs
OCD

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

SIGNATURE [signature] TITLE Regulatory Specialist DATE 2/19/2007

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

(This space for State Use)

APPROVED [signature] TITLE OC FIELD REPRESENTATIVE II/STAFF MANAGER DATE MAR 0 7 2007

CONDITIONS OF APPROVAL, IF ANY:

H. T. Mattern B # 22
Penrose Skelly Field
T21S, R37E, Section 31
Job: Add Perfs In Blinebry Formation And Frac

Procedure:

1. ***This procedure is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of 2/13/2007. Verify what is in the hole with the well file in the Eunice Field office. Discuss w/ WEO Engineer, Workover Rep, OS, ALS, and FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.***

2. 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 Donnie Ives for repair/replacement. If test is good, bleed off pressure and **open valve** at header. Document this process in the morning report.

3. MI & RU workover 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 as required. POH with 2 7/8" tbg string. LD TAC.

4. PU and GIH with 4 ¾" MT bit and 2 7/8" work string to 6450'. POH with work string and bit. LD bit.

5. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH with 3 1/8" DP slick casing gun and perforate from 5464-72', 5494-5502', 5520-28', 5540-46', 5552-60', 5566-74', 5592-5600', 5620-28', 5645-53', 5660-68', 5676-84', 5696-5704', 5718-22', 5732-38', 5757-65', 5784-92', 5824-32', 5868-76', and 5954-62' with 4 JSPF at 120 degree phasing, using 23 gram premium charges. POH. RD & release electric line unit. **Note: Use casing collars from Welex Gamma-Collar Perforation Record Log dated 3/17/76 for depth correlation.**

6. PU and GIH w/ 5 ½" PPI pkr (with 10' element spacing) and SCV on 2 7/8" work string to approximately 6000'. Test tbg to 5500 psi while GIH. Set PPI pkr at 6000'. Pressure test casing from 6000-6450' to 2000 psi. Release PPI pkr.

7. MI & RU DS Services. Acidize perfs 5464-5962' with 3,800 gals anti-sludge 15% HCl acid * at a maximum rate **as shown below** and a maximum surface pressure of **4500 psi**. Spot acid across perfs at beginning of each stage and let soak to lower breakdown pressure and prevent communication. Pump job as follows:

Interval	Amt. Acid	Max Rate	PPI Setting
5954-62'	200 gals	½ BPM	5953-63'
5868-76'	200 gals	½ BPM	5867-77'
5824-32'	200 gals	½ BPM	5823-33'
5784-92'	200 gals	½ BPM	5783-93'
5757-65'	200 gals	½ BPM	5756-66'
5732-38'	200 gals	½ BPM	5730-40'
5718-22'	200 gals	½ BPM	5715-25'
5696-5704'	200 gals	½ BPM	5695-5705'
5676-84'	200 gals	½ BPM	5675-85'
5660-68'	200 gals	½ BPM	5659-69'
5645-53'	200 gals	½ BPM	5644-54'
5620-28'	200 gals	½ BPM	5619-29'
5592-5600'	200 gals	½ BPM	5591-5601'
5566-74'	200 gals	½ BPM	5565-75'
5552-60'	200 gals	½ BPM	5551-61'
5540-46'	200 gals	½ BPM	5538-48'
5520-28'	200 gals	½ BPM	5519-29'
5494-5502'	200 gals	½ BPM	5493-5503'
5464-72'	200 gals	½ BPM	5463-73'

Displace acid with 8.6 PPG cut brine water -- do not overdisplace. Use a SCV to control displacement fluid. Record ISIP, 5 & 10 minute SIP's. RD and release DS services. **Note: Pickle tubing in 1 run of 500 gals acid, prior to acidizing perfs. Pickle acid is to contain only 1/2 gal A264 and 1 gal W53. Also, if communication occurs during treatment of any interval, monitor casing pressure and attempt to complete stage w/o exceeding 500 psi csg pressure. If cannot, then move PPI to next setting depth and combine treatment volumes of the intervals.**

* Acid system is to contain:	1 GPT A264	Corrosion Inhibitor
	8 GPT L63	Iron Control Agent
	2 PPT A179	Iron Control Aid
	20 GPT U66	Mutual Solvent
	2 GPT W53	Non-Emulsifier

8. Release PPI pkr and PUH to approximately 5450'. Set PPI pkr at 5450'. Pressure test casing from surface – 5450' to 500 psi. GIH and swab back all intervals together. Recover 100% of treatment and load volumes before shutting well in for night, if possible. Report recovered fluid volumes, pressures, and/or swabbing fluid levels. **Note: Selectively swab perfs as directed by Engineering if excessive water is produced.**

9. Open well. Release PPI pkr. POH with 2 7/8" work string and PPI packer. LD PPI tool.

10. PU and GIH w/ 5 ½" Lok-Set pkr & On-Off tool w/ 2.25" "F" profile and 161 jts. of 3 ½" EUE 8R L-80 work string, testing to 8500 psi. Set pkr at approximately 5000'. Install frac

head. Pressure annulus to 500 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication.

11. MI & RU DS Services and Tracer-Tech Services (Mike Mathis (866) 595-3115). Install casing saver. Frac well down 3 ½" tubing 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 **8000 psi.** Tag frac with 2 radioactive isotopes (1 in main proppant stages, and 1 in resin-coated proppant stage). 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
    Pump 14,000 gals YF130 pad containing 5 GPT J451 Fluid Loss Additive
    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 5420' with 2,247 gals WF130. **Do not overflush.** Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release DS Services and Tracer-Tech Services. **Leave well SI overnight.**

12. Open well. GIH and swab well until there is no sand inflow. Report recovered fluid volumes, pressures, and/or swabbing fluid levels. Release pkr and POH with 3 ½" work string. Lay down 3 ½" work string and pkr.

13. PU and GIH with 4 ¾" MT bit on 2 7/8" work string to 6200'. If fill is found above 6200', clean out fill to 6450' using 8.6 PPG cut brine water and air unit (if necessary). POH with 2 7/8" work string and bit. LD bit.

14. PU & GIH with 5 ½" pkr on 2 7/8" work string to 5300'. Set pkr at 5300'. Open well. GIH and swab well until there is no sand inflow. Swab well for at least 3 hours before logging. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and conduct after-frac PRISM GR/Temp/CCL log from 6100' up to 5300'. POH. RD & release electric line unit. **Note: Correlate logs and run flat with Welex Gamma-Collar Perforation Record Log dated 3/17/76.**

15. Release pkr. POH LD 2 7/8" work string and pkr.

16. PU and GIH w/ BP mud anchor jt of 2 7/8" tbg, 2 7/8" x 4' perforated sub, SN, 1 jt 2 7/8" EUE 8R J-55 IPC tbg, 20 jts 2 7/8" EUE 8R J-55 tbg, TAC, and 171 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Set TAC at 5385', with EOT at 6085' and SN at 6050'.

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

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

AMH
2/13/2007

Well: **H. T. Mattern (NCT-B) # 22** Field: **Blinebry O&G** Reservoir: **Blinebry**

Current Wellbore Diagram

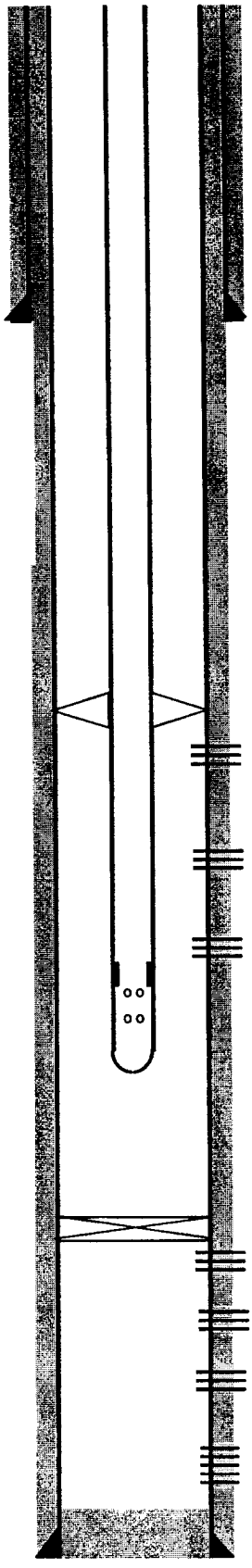
Location:
785' FNL & 2310' FEL
Section: 31
Township: 21S
Range: 37E Unit: B
County: Lea State: NM

Well ID Info:
Chevno: EO9092
API No: 30-025-25246
L5/L6: U463000
Spud Date:2/29/76
Compl. Date:3/29/76

Elevations:
GL: 3496'
KB: 3506'
DF: 3505'

Surf. Csg: 8-5/8", 24#, K-55
Set: @ 1205' w/500 sx cmt
Size of hole: 11"
Circ: Yes **TOC:** Surface
TOC By: Circulated

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.



Tubing Detail:

#Jts:	Size:	Footage
	KB Correction	10.00
171	Jts. 2 7/8" EUE 8R J-55 Tbg	5386.32
	TAC	2.70
12	Jts. 2 7/8" EUE 8R J-55 Tbg	319.62
1	Jts. 2 7/8" EUE 8R J-55 IPC Tbg	32.35
	SN	1.10
	2 7/8" x 4' Perf Tbg Sub	4.10
1	Jt. 2 7/8" EUE 8R J-55 Tbg	27.82
	Bull Plug	0.50
185	**Bottom Of String >>**	5784.51

Perfs	Status
5467-69'	Blinebry - Open
5499-5501'	Blinebry - Open
5545-47'	Blinebry - Open
5594-96'	Blinebry - Open
5623-25'	Blinebry - Open
5666-68'	Blinebry - Open
5702-04'	Blinebry - Open

CIBP @ 6450'
(No cmt on top)

Perfs	Status
6492-94'	Drinkard - Below CI
6546-48'	Drinkard - Below CI
6596-98'	Drinkard - Below CI
6648-50'	Drinkard - Below CI
6696-98'	Drinkard - Below CI

COTD: 6450'
PBTD: 6450'
TD: 6808'

Prod. Csg: 5-1/2", 15.5# K-55
Set: @ 6808' w/925 sx cmt
Size of hole: 7-7/8"
Circ: Yes **TOC:** Surface
TOC By: Circulated

Updated: 2/13/07

By: A. M. Howell

matternb22 wb diagram.xls

Well: **H. T. Mattern (NCT-B) # 22** Field: **Blinebry O&G** Reservoir: **Blinebry**

Proposed
Wellbore Diagram

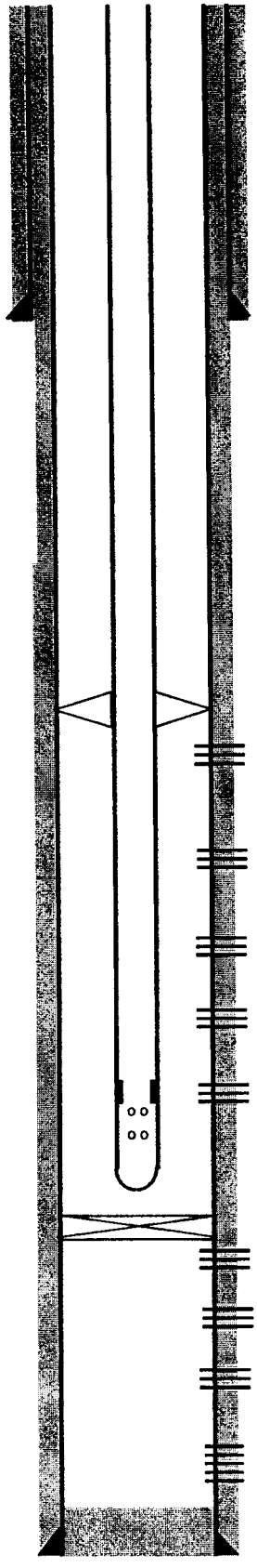
Location:
785' FNL & 2310' FEL
Section: 31
Township: 21S
Range: 37E Unit: B
County: Lea State: NM

Well ID Info:
Chevno: EO9092
API No: 30-025-25246
L5/L6: U463000
Spud Date:2/29/76
Compl. Date:3/29/76

Elevations:
GL: 3496'
KB: 3506'
DF: 3505'

Surf. Csg: 8-5/8", 24#, K-55
Set: @ 1205' w/500 sx cmt
Size of hole: 11"
Circ: Yes **TOC:** Surface
TOC By: Circulated

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.



Tubing Detail:

#Jts:	Size:	Footage
	KB Correction	10.00
171	Jts. 2 7/8" EUE 8R J-55 Tbg	5386.32
	TAC	2.70
20	Jts. 2 7/8" EUE 8R J-55 Tbg	620.00
1	Jts. 2 7/8" EUE 8R J-55 IPC Tbg	32.35
	SN	1.10
	2 7/8" x 4' Perf Tbg Sub	4.10
1	Jt. 2 7/8" EUE 8R J-55 Tbg	27.82
	Bull Plug	0.50
193	Bottom Of String >>	6084.89

Perfs	Status
5464-72'	Blinebry - Open
5494-5502'	Blinebry - Open
5520-28'	Blinebry - Open
5540-46'	Blinebry - Open
5552-60'	Blinebry - Open
5566-74'	Blinebry - Open
5592-5600'	Blinebry - Open
5620-28'	Blinebry - Open
5645-53'	Blinebry - Open
5660-68'	Blinebry - Open
5676-84'	Blinebry - Open
5696-5704'	Blinebry - Open
5718-22'	Blinebry - Open
5732-38'	Blinebry - Open
5757-65'	Blinebry - Open
5784-92'	Blinebry - Open
5824-32'	Blinebry - Open
5868-76'	Blinebry - Open
5954-62'	Blinebry - Open

CIBP @ 6450'
(No cmt on top)

Perfs	Status
6492-94'	Drinkard - Below CI
6546-48'	Drinkard - Below CI
6596-98'	Drinkard - Below CI
6648-50'	Drinkard - Below CI
6696-98'	Drinkard - Below CI

COTD: 6450'
PBTD: 6450'
TD: 6808'

Prod. Csg: 5-1/2", 15.5# K-55
Set: @ 6808' w/925 sx cmt
Size of hole: 7-7/8"
Circ: Yes **TOC:** Surface
TOC By: Circulated

Updated: 2/13/07

By: A. M. Howell

matternb22 wb diagram.xls