

District I

1625 N French Dr , Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S St. Francis Dr , Santa Fe, NM 87505

State of New Mexico

Energy Minerals and Natural Resources

Form C-101

June 16, 2008

Oil Conservation Division

Submit to appropriate District Office

1220 South St. Francis Dr.

Santa Fe, NM 87505

☐ AMENDED REPORTAPPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN,
PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address CHEVRON U S A INC 15 SMITH ROAD MIDLAND, TEXAS 79705		² OGRID Number 4323
		³ API Number 30 - 025-30047
³ Property Code 2682	⁵ Property Name H T MATTERN NCT-B	
⁹ Proposed Pool 1 BLINEBRY OIL & GAS		⁶ Well No 25
		¹⁰ Proposed Pool 2

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
G	31	21-S	37-E		1400	NORTH	2600	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

Additional Well Information

Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3490' GL
¹⁶ Multiple NO	¹⁷ Proposed Depth	¹⁸ Formation BLINEBRY	¹⁹ Contractor	²⁰ Spud Date

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
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 INTO THE BLINEBRYPOOL

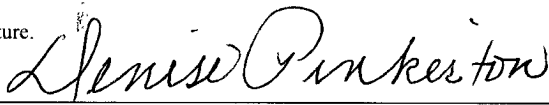
THE INTENDED PROCEDURE AND CURRENT AND PROPOSED WELLBORE DIAGRAMS ARE ATTACHED FOR YOUR APPROVAL

THE APPROVED NSL ORDER IS ALSO ATTACHED (NSL-2419-A)

**Permit Expires 2 Years From Approval
Date Unless Drilling Underway**

²³ I hereby certify 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

E-mail Address:
leakejd@chevron.com

Date:
08-12-2008

Phone:
432-687-7375

OIL CONSERVATION DIVISION

Approved by

Title:
PETROLEUM ENGINEER

Approval Date:
AUG 21 2008

Expiration Date

Conditions of Approval Attached ☐

H. T. Mattern B # 25
Blinebry Oil & Gas Field
T21S, R37E, Section 31
Job: PB To Blinebry Formation, Acidize, 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 11/5/2007. 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 LD 2 7/8" tbg string.
4. PU and GIH with 4 3/4" MT bit and 2 7/8" work string to 6525'. POH with work string and bit. LD bit.
5. PU and GIH with 5 1/2" tbg-set CIBP to 6500'. Set CIBP at 6500'. Dump 35' cmt on top of CIBP. PUH to 6400'. Reverse circulate well clean from 6400' using 8.6 PPG cut brine water. Pressure test csg and CIBP to 500 psi. POH with 2 7/8" work string.
6. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and conduct GR/CBL/CCL log from 6465' up to 2600'. POH. Inspect logs for good cement bond from approximately 6200' up to 5300'. If bond does not appear to be good across proposed completion interval, discuss with Engineering before proceeding. Cmt squeeze as necessary to obtain good cmt across completion interval. GIH with 3 1/8" DP slick casing gun and perforate from 5502-08', 5514-24', 5550-60', 5563-73', 5580-85', 5591-5603', 5612-22', 5634-44', 5650-58', 5662-68', 5720-24', 5858-62', and 5886-92' with 4 JSPF at 120 degree phasing, using 23 gram premium charges. POH. RD & release electric line unit.
Note: Use Western Atlas Z-Densilog/Compensated Neutron Log dated 11/28/87 for depth correlation.
7. PU and GIH w/ 5 1/2" PPI pkr (with 12' element spacing) and SCV on 2 7/8" work string to approximately 5900'. Test tbg to 5500 psi while GIH.

8. MI & RU DS Services. Acidize perfs 5502-5892' with 2,600 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
5886-92'	200 gals	½ BPM	5884-96'
5858-62'	200 gals	½ BPM	5852-64'
5720-24'	200 gals	½ BPM	5718-30'
5662-68'	200 gals	½ BPM	5660-72'
5650-58'	200 gals	½ BPM	5648-60'
5634-44'	200 gals	½ BPM	5633-45'
5612-22'	200 gals	½ BPM	5611-23'
5591-5603'	200 gals	½ BPM	5591-5603'
5580-85'	200 gals	½ BPM	5578-90'
5563-73'	200 gals	½ BPM	5562-74'
5550-60'	200 gals	½ BPM	5549-61'
5514-24'	200 gals	½ BPM	5513-25'
5502-08'	200 gals	½ BPM	5500-12'

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

9. Release PPI pkr and PUH to approximately 5475'. 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.**
10. Open well. Release PPI pkr. POH with tbg and PPI packer. LD PPI tool.
11. PU and GIH w/ 5 ½" 10K Arrow-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.

12. MI & RU DS Services and Tracer-Tech Services (Mike Mathis (866) 595-3115). 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.**

13. 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.
14. PU and GIH with 4 ¾" MT bit on 2 7/8" work string to 6100'. If fill is found above 6100', clean out fill to 6465' using 8.6 PPG cut brine water and air unit (if necessary). POH with 2 7/8" work string and bit. LD bit.
15. 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 Baker Atlas GR/CBL/CCL Log conducted in Step # 6.**
16. Release pkr. POH LD 2 7/8" work string and pkr.
17. PU and GIH w/ Centrilift sub pump assembly, 2 7/8" x 10' tbg sub, drain sub, and 175 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Suspend tbg with bottom of sub pump assembly at approximately 5500'.
18. Remove BOP's and install WH. GIH with rods, weight bars, and pump per ALS recommended design. RD & release pulling unit.

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

AMH

11/5/2007

Well: **H. T. Mattern (NCT-B) # 25**

Field **Drinkard**

Reservoir **Drinkard**

Current
Wellbore Diagram

Location:

1400' FNL & 2600' FEL
Section: 31
Township: 21S
Range: 37E Unit: F
County: Lea State: NM

Elevations:

GL: 3490'
KB: 3507'
DF: 3506'

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		17.00
None		

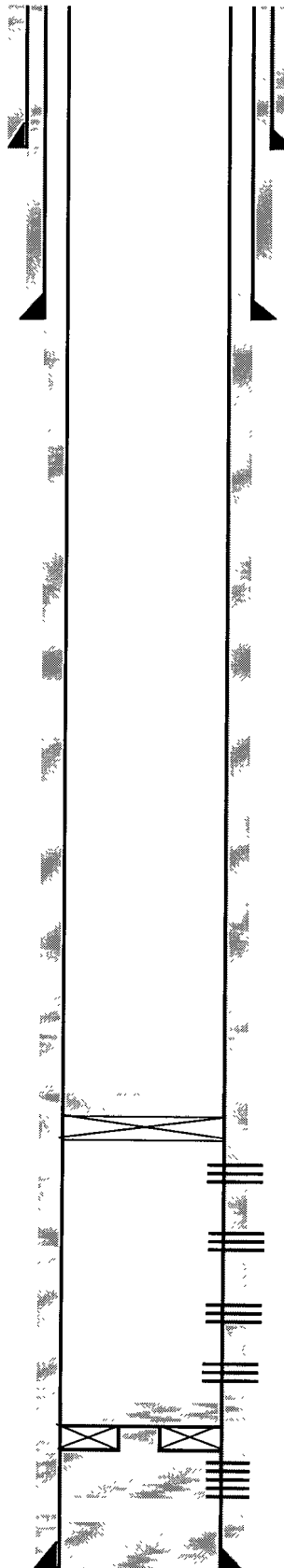
0 Bottom Of String >> 17.00

CIBP @ 6500'
(35' cmt on top)

CICR at 6676'
(6' cmt on top)

COTD: 6670'
PBTD: 6670'
TD: 6830'

Updated: 11/5/07



By: A. M. Howell

Well ID Info:

Chevno: II9502
API No: 30-025-30047
L5/L6: U415000
Spud Date: 11/5/87
Compl. Date: 1/7/88

Surf. Csg: 11-3/4", 42#, H-40

Set: @ 417' w/300 sx cmt

Size of hole: 14 3/4"

Circ: Yes **TOC:** Surface

TOC By: Circulated

Interm. Csg: 8 5/8", 24# & 32#, K

Set: @ 2660' w/800 sx cmt

Size of hole: 11"

Circ: Yes **TOC:** Surface

TOC By: Circulated

Perfs	Status
6569'	Drinkard - Open
6575'	Drinkard - Open
6582'	Drinkard - Open
6588'	Drinkard - Open
6595'	Drinkard - Open
6611'	Drinkard - Open
6621'	Drinkard - Open
6627'	Drinkard - Open
6633'	Drinkard - Open
6639'	Drinkard - Open
6687'	Drinkard - Cmt Sq
6688'	Drinkard - Cmt Sq
6702'	Drinkard - Cmt Sq
6703'	Drinkard - Cmt Sq
6717'	Drinkard - Cmt Sq
6718'	Drinkard - Cmt Sq

Prod. Csg: 5-1/2", 15.5# K-55

Set: @ 6830' w/1750 sx cmt

Size of hole: 7-7/8"

Circ: No **TOC:** 2650'

TOC By: CBL

Proposed
Wellbore Diagram**Location:**

1400' FNL & 2600' FEL
 Section 31
 Township: 21S
 Range: 37E Unit. **G**
 County Lea State: NM

Elevations:

GL: 3490'
 KB 3507'
 DF 3506'

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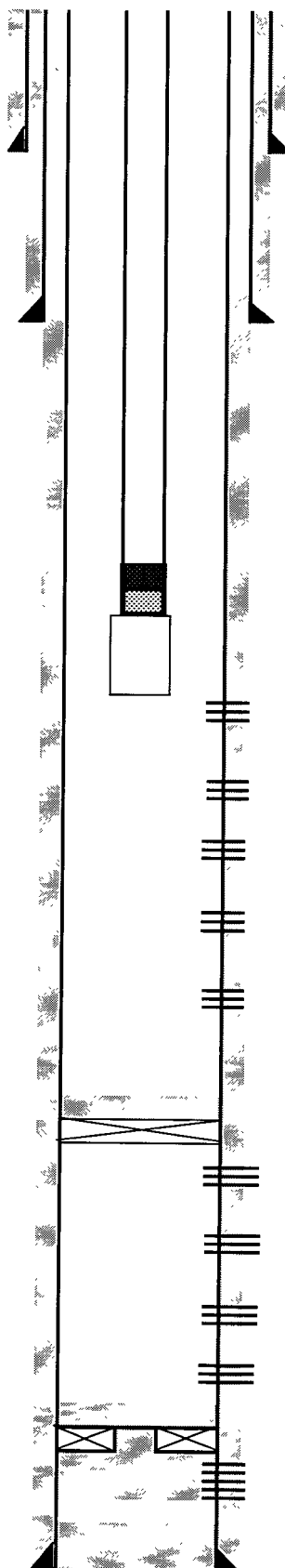
#Jts:	Size:	Footage
	KB Correction	17 00
175	Jts 2 7/8" J-55 Cl 'B'	5425 00
	2 7/8" x 6" Tbg Sub	10 00
	Drain Valve	0 55
	2 7/8" x 2 3/8" X-Over	0 60
	Centrlift Sub Pump	42 43
175	Bottom Of Mtr >>	5495.58

CIBP @ 6500'
 (35' cmt on top)

CICR at 6676'
 (6' cmt on top)

COTD: 6465'
PBTD: 6465'
TD: 6830'

Updated: 11/5/07



By: A. M. Howell

Well ID Info:

Chevno: II9502
 API No 30-025-30047
 L5/L6: U463000
 Spud Date: 11/5/87
 Compl Date: 1/7/88

Surf. Csg: 11-3/4", 42#, H-40
Set: @ 417' w/300 sx cmt
Size of hole: 14 3/4"
Circ: Yes **TOC:** Surface
TOC By: Circulated

Interm. Csg: 8 5/8", 24# & 32#, K
Set: @ 2660' w/800 sx cmt
Size of hole: 11"
Circ: Yes **TOC:** Surface
TOC By: Circulated

See

Perfs:	Status:
5502-08'	Blinebry - Open
5514-24'	Blinebry - Open
5550-60'	Blinebry - Open
5563-73'	Blinebry - Open
5580-85'	Blinebry - Open
5591-5603'	Blinebry - Open
5612-22'	Blinebry - Open
5634-44'	Blinebry - Open
5650-58'	Blinebry - Open
5662-68'	Blinebry - Open
5720-24'	Blinebry - Open
5858-62'	Blinebry - Open
5886-92'	Blinebry - Open

Perfs:	Status:
6569'	Drinkard - Open
6575'	Drinkard - Open
6582'	Drinkard - Open
6588'	Drinkard - Open
6595'	Drinkard - Open
6611'	Drinkard - Open
6621'	Drinkard - Open
6627'	Drinkard - Open
6633'	Drinkard - Open
6639'	Drinkard - Open
6687'	Drinkard - Cmt Sq
6688'	Drinkard - Cmt Sq
6702'	Drinkard - Cmt Sq
6703'	Drinkard - Cmt Sq
6717'	Drinkard - Cmt Sq
6718'	Drinkard - Cmt Sq

Prod. Csg: 5-1/2", 15 5# K-55
Set: @ 6830' w/1750 sx cmt
Size of hole: 7-7/8"
Circ: No **TOC:** 2650'
TOC By: CBL

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies
☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-30047	² Pool Code 6660	³ Pool Name BLINEBRY OIL & GAS
⁴ Property Code 2682	⁵ Property Name H.T. MATTERN NCT-B	
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	
		⁶ Well Number 25
		⁹ Elevation 3490' GL

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	31	21-S	37-E		1400	NORTH	2600	EAST	LEA

¹¹ 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

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL-2419-A
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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 style="text-align: center;"> </div>	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</p> <p><i>Denise Pinkerton</i> 08-12-2008 Signature Date</p> <p>DENISE PINKERTON REGULATORY SPECIALIST Printed Name</p>
	<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>Certificate Number</p>