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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-
May 27, 2

RECEIVED
Submit to appropriate District Of

☐ AMENDED REPC

FEB 13 2008

HOBBS OCD

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

[1] Operator Name and Address	[2] OGRID Number
CHEVRON U S A INC 15 SMITH ROAD MIDLAND, TEXAS 79705	4323
	[3] API Number 30 – 025-24828

[3] Property Code	[5] Property Name	[6] Well No.
2685	H.T. MATTERN (NCT-D)	9

[9] Proposed Pool 1	[10] Proposed Pool 2
BLINEBRY OIL AND GAS	

[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
D	6	22-S	37-E		810	NORTH	660	WEST	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

[11] Work Type Code	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
P	O		P	3467'
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
NO	6800'	BLINEBRY		

Depth to Groundwater	Distance from nearest fresh water well	Distance from nearest surface water

Pit: Liner: Synthetic ☐ _____mils thick Clay ☐ Pit Volume:_____bbls
Closed-Loop System ☐

Drilling Method
Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐

[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 zo
Describe the blowout prevention program, if any Use additional sheets if necessary

CHEVRON U.S A. INC INTENDS TO PLUGBACK THE SUBJECT WELL TO THE BLINEBRY FORMATION & FRACSTIMULATE

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

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

Permit Expires 2 Years From Approval Date Unless ~~Drilling~~ Underway
Plugback

[23] I hereby certify that the information given above is true and complete to the best of my knowledge and belief **I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Signature Denise Pinkerton

Printed name: DENISE PINKERTON

Title REGULATORY SPECIALIST

E-mail Address leakejd@chevron.com

Date 2-12-2008 Phone: 432-687-7375

OIL CONSERVATION DIVISION

Approved by

Title Geologist

Approval Date FEB 14 2008 Expiration Date

Conditions of Approval Attached ☐

H. T. Mattern (NCT-D) # 9
Blinebry Oil & Gas Field
T22S, R37E, Section 6
Job: Plugback To Blinebry Formation And Frac Stimulate

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 1/30/2008. 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. 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 LD rods and pump. Remove WH. Install BOP's and test as required.

4. POH LD 2 3/8" tbg string.

5. PU and GIH with 4 ¾" MT bit and Class "A" 2 7/8" tbg string to 6200'. POH with tbg string and 4 ¾" bit. LD bit. PU & GIH with tbg-set 5 ½" CIBP on 2 7/8" tbg string to 6100'. Set CIBP at 6100'. Pressure test csg and CIBP to 500 psi using 8.6 PPG cut brine water. POH with 2 7/8" tbg string and setting tool. LD setting tool.

6. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and conduct GR/CBL/CCL from 6100' up to 100' above top of cement. Run log with with 500 psi on casing. POH. Inspect logs for good cement bond from approximately 5900' up to 5100'. If bond does not appear to be good across proposed completion interval, discuss with Engineering before proceeding. GIH with 3 1/8" slick casing guns and perforate from 5450-56', 5460-70', 5480-88', 5516-26', 5529-38', 5541-50', 5558-66', 5570-74', 5590-94', 5616-18', 5632-34', and 5646-52' 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 10/2/74 for depth correction.**

7. PU and GIH w/ 5 ½" PPI pkr (with 12' element spacing) and SCV on 2 7/8" tbg string to approximately 5650'. Test tbg to 5500 psi while GIH.

8. MI & RU DS Services. Acidize perfs 5450-5652' with 2,400 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
5646-52'	200 gals	½ BPM	5642-54'
5632-34'	200 gals	½ BPM	5630-42'
5616-18'	200 gals	½ BPM	5610-22'
5590-94'	200 gals	½ BPM	5587-99'
5570-74'	200 gals	½ BPM	5568-80'
5558-66'	200 gals	½ BPM	5556-68'
5541-50'	200 gals	½ BPM	5540-52'
5529-38'	200 gals	½ BPM	5528-40'
5516-26'	200 gals	½ BPM	5515-27'
5480-88'	200 gals	½ BPM	5478-90'
5460-70'	200 gals	½ BPM	5459-71'
5450-56'	200 gals	½ BPM	5446-58'

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 5400'. Set pkr at 5400'. Fish SCV. 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. GIH to 5700'. Set PPI pkr at 5700'. Pressure test casing from 5700' – 6100' to 2000 psi. Release PPI pkr. POH with tbg and PPI packer. LD PPI tool.

11. PU and GIH w/ 5 ½" Arrow-Set 10K 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. Frac well down 3 ½" tubing at **40 BPM** with 88,000 gals of YF125, 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**. Pump job as follows:

    Pump 2,000 gals 2% KCL wtr containing 55 gals Baker RE 4777-SCW Scale Inhibitor at **6 BPM**
    Pump 1,000 gals 2% KCL water spacer at **20 BPM**
    Pump 14,000 gals YF125 pad containing 5 GPT J451 Fluid Loss Additive at **40 BPM**
    Pump 14,000 gals YF125 containing 0.5 PPG 16/30 mesh Jordan Sand & 5 GPT J451 FL Additive
    Pump 12,000 gals YF125 containing 1.5 PPG 16/30 mesh Jordan Sand
    Pump 12,000 gals YF125 containing 2.5 PPG 16/30 mesh Jordan Sand
    Pump 14,000 gals YF125 containing 3.5 PPG 16/30 mesh Jordan Sand
    Pump 16,000 gals YF125 containing 4.5 PPG 16/30 mesh Jordan Sand
    Pump 6,000 gals YF125 containing 5 PPG **resin-coated** 16/30 mesh CR1630 proppant.

    Flush to 5387' with 2,214 gals WF125. **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.**

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 5 ½" RBP to 2600'. Set RBP at 2600'. Spot 20' sand on top of RBP at 2600'. Pressure test casing to 500 psi.

15. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH with 3 1/8" slick casing gun and perforate from 1240-41' with 4 JSPF at 120 degree phasing, using 23 gram premium charges. POH. Pump down casing and establish circulation through sqz perfs and out surface casing valve. GIH and set CICR at 1170'. Pressure test CICR to 500 psi. RD & release electric line unit. **Note: Use casing collars from Welex Gamma-Collar Perforation Record Log dated 10/2/74 for depth correction.**

16. PU & GIH with stinger on 2 7/8" tbg string to 1170'. Sting into CICR at 1170'. Establish injection rate into sqz perfs with surface casing valve open.

17. RU DS Services cementing equipment. Cement squeeze perfs 1240-41' using Class C cement mixed to 14.8 PPG w/ 1.35 CFY. Circulate cement out surface casing valve. Close surface csg valve and attempt to achieve at least 500 psi final squeeze pressure. Sting out of CICR. Reverse out excess cement. POH with 2 7/8" tbg string and stinger. LD stinger. RD and release DS Services cementing equipment. Shut well in and WOC overnight.

18. Open well. PU and GIH with 4 ¾" MT bit on 2 7/8" tbg string to top of CICR at 1170'. Lower down and drill out CICR and cement in 5 ½" casing. Reverse circulate well clean using 8.6 PPG cut brine water. Pressure test casing and sqz perfs to 350 psi. Check for water flow out of surface casing. If csg leaks or water flow persists from surface casing valve, repeat cmt sqz procedure. LD and cleanout csg to top of RBP. Reverse circulate well clean from top of RBP at 2600' using 8.6 PPG cut brine water. POH with 2 7/8" tbg string and bit.

LD bit. GIH with retrieving head and engage RBP. POH with tbg string and RBP. LD RBP.

19. PU and GIH with 4 ¾" MT bit and 2 7/8" tbg string to approximately 6000'. If fill is found above 6000', MI&RU air unit. Establish circulation using foam. Clean out wellbore to 6100'. Circulate well clean from 6100'. POH with tbg string and 4 ¾" bit. LD bit.

20. 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, 16 jts 2 7/8" EUE 8R J-55 tbg, TAC, and 173 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Set TAC at 5375', with EOT at 5910' and SN at 5875'.

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

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

AMH
2/5/2008

Well **H. T. Mattern (NCT-D) # 9**

Field **Tubb O&G, & Drinkard (DHC)**

Reservoir **Tubb & Drinkard & Drinkard**

Location:
810' FNL & 660' FWL
Section 6
Township 22S
Range 37E
County Lea State NM

Elevations:
GL 3467'
KB 3478'
DF 3477'

Current Wellbore Diagram

Well ID Info:
Chevno EO1161
API No 30-025-24828
L5/L6 UCU477300
Spud Date 8/28/74
Compl Date 11/26/74

Surf. Csg: 8 5/8", 24#, K-55
Set: @ 1186' w/ 585 sks
Hole Size: 12 1/4"
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	11 00
203	Jts 2 3/8" J-55 Cl 'B'	6397 00
	SN	1 10
203	**Bottom Of String >>**	**6409.10**

Perfs:	Status:
6146-50'	Tubb - Open
6170-74'	Tubb - Open
6198-6202'	Tubb - Open
6228-32'	Tubb - Open
6250-54'	Tubb - Open
6278-82'	Tubb - Open
6302-06'	Tubb - Open
6433-37'	Drinkard - Open
6481-85'	Drinkard - Open
6527-31'	Drinkard - Open
6557-61'	Drinkard - Open
6586-90'	Drinkard - Open
6613-17'	Drinkard - Open
6647-51'	Drinkard - Open
6671-75'	Drinkard - Open

COTD: 6760'
PBTD: 6767'
TD: 6800'

Prod. Csg: 5 1/2", 14#, 15 50# & 17#, K-55 & N-80
Set: @ 6800' w/ 725 sks
Hole Size: 7 7/8"
Circ: No **TOC:** 2360'
TOC By: Temperature Survey

Updated: 1/30/2008

By: A M Howell

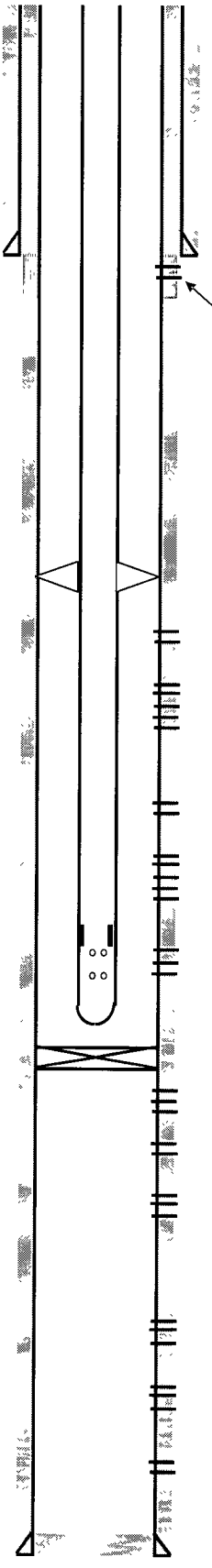
Well **H. T. Mattern (NCT-D) # 9** Field **Blinebry O&G** Reservoir **Blinebry**

Location:
810' FNL & 660' FWL
Section 6
Township 22S
Range 37E
County Lea State NM

Elevations:
GL 3467'
KB 3478'
DF 3477'

Well ID Info:
Chevno EO1161
API No 30-025-24828
L5/L6 UCU467000
Spud Date 8/28/74
Compl Date 11/26/74

Proposed Wellbore Diagram



Surf. Csg: 8 5/8", 24#, K-55
Set: @ 1186' w/ 585 sks
Hole Size: 12 1/4"
Circ: Yes **TOC:** Surface
TOC By: Circulated

Sqz Perfs at 1240'

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Tubing Detail

#Jts	Size	Footage
	KB Correction	11 00
173	Jts 2 7/8" EUE 8R J-55 Tbg	5363 00
	TAC	2 72
16	Jts 2 7/8" EUE 8R J-55 Tbg	496 00
	SN	1 10
	2 7/8" x 4' Perf Tbg Sub	4 10
1	Jt 2 7/8" EUE 8R J-55 Tbg	31 20
	Bull Plug	0 50
190	**Bottom Of String >>**	5909.62

Perfs:	Status:
5450-56'	Blinebry - Open
5460-70'	Blinebry - Open
5480-88'	Blinebry - Open
5516-26'	Blinebry - Open
5529-38'	Blinebry - Open
5541-50'	Blinebry - Open
5558-66'	Blinebry - Open
5570-74'	Blinebry - Open
5590-94'	Blinebry - Open
5616-18'	Blinebry - Open
5632-34'	Blinebry - Open
5646-52'	Blinebry - Open

CIBP @ 6100'
(No cmt on top)

6146-50'	Tubb - Open
6170-74'	Tubb - Open
6198-6202'	Tubb - Open
6228-32'	Tubb - Open
6250-54'	Tubb - Open
6278-82'	Tubb - Open
6302-06'	Tubb - Open

6433-37'	Drinkard - Open
6481-85'	Drinkard - Open
6527-31'	Drinkard - Open
6557-61'	Drinkard - Open
6586-90'	Drinkard - Open
6613-17'	Drinkard - Open
6647-51'	Drinkard - Open
6671-75'	Drinkard - Open

COTD: 6100'
PBTD: 6100'
TD: 6800'

Prod. Csg: 5 1/2", 14#, 15.50# & 17#, K-55 & N-80
Set: @ 6800' w/ 725 sks
Hole Size: 7 7/8"
Circ: No **TOC:** 2360'
TOC By: Temperature Survey

Updated: 1/30/2008

By: A M Howell

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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	2 Pool Code	3 Pool Name
30-025-24828	6660	BLINEBRY OIL & GAS

4 Property Code	5 Property Name	6 Well Number
	H.T. MATTERN (NCT-D)	9

7 OGRID No.	8 Operator Name	9 Elevation
4323	CHEVRON U.S.A. INC.	3467'

10 Surface Location

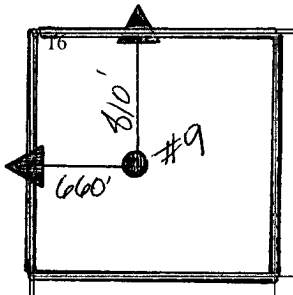
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	6	22-S	37-E		810	NORTH	660	WEST	LEA

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	13 Joint or Infill	14 Consolidation Code	15 Order No.
40			

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, 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

Denise Pinkerton — 2-12-2008

Signature — Date

DENISE PINKERTON
Printed Name

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 belief.

Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number