

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-101

Revised February 10, 1999

Instructions on back

Submit to Appropriate District Office

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OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

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

¹ Operator Name and Address CHEVRON USA INC 15 SMITH ROAD, MIDLAND, TX 79705		² OGRID Number 4323
		³ API Number 30 025 33782
⁴ Property Code 30020	⁵ Property Name V. M. HENDERSON	⁶ Well No. 16

⁷ Surface Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
E	30	21-S	37-E		1650	NORTH	660	WEST	LEA

⁸ Proposed Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
⁹ Proposed Pool 1 PADDOCK					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² WellType Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3501'
¹⁶ Multiple No	¹⁷ Proposed Depth 6900'	¹⁸ Formation PADDOCK	¹⁹ Contractor	²⁰ Spud Date 7/15/2003

²¹ Proposed Casing and Cement Program

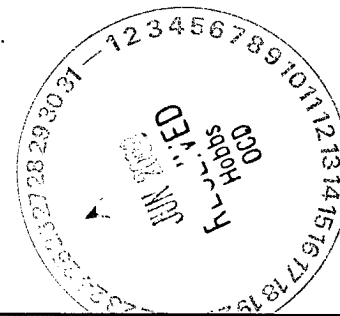
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
NO CHANGE					

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 IN THE PADDOCK FORMATION.

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

Permit Expires 1 Year From Approval
Date Unless ~~Drilling~~ Underway
Plug-Back



²³ I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature *Denise Leake*

Printed Name Denise Leake

Title Regulatory Specialist

Date 6/25/2003

Telephone 915-687-7375

OIL CONSERVATION DIVISION

Approved By: *Paul B. [Signature]*

Title: PETROLEUM ENGINEER

Approval Date: JUL 02 2003

Expiration Date:

Conditions of Approval:

Attached ☐

V. M. Henderson # 16

Paddock Field

T21S, R37E, Section 30

Job: Recomplete Deeper In Paddock Formation And Acidize

Procedure:

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 3/8" tbg string.
3. PU and GIH with 4 3/4" MT bit and 2 7/8" work string to PBTD at 5365'. Reverse circulate well clean from 5365' using 8.6 PPG cut brine water. POH with 2 7/8" work string and bit. LD bit.
4. PU & GIH with 5 1/2" sqz pkr on 2 7/8" work string to 3700'. Set pkr at 3700'. Pressure test pkr and csg to 500 psi. Leave pressure on casing while cmt squeezing. Establish injection rate into perfs 4035-4103'. Monitor csg pressure for communication.
5. RU DS Services cementing equipment. Cement squeeze perfs 4035-4103' using Class C cement mixed to 14.8 PPG w/ 1.35 CFY. Attempt to achieve at least 2000 psi squeeze pressure. Release pkr. Reverse out excess cement. PUH to approximately 3400'. Reset pkr at 3400' and pressure tbg and csg to 500 psi. RD and release DS Services cementing equipment. Shut well in and WOC overnight.
6. Open well. Bleed off pressure. POH with 2 7/8" work string and sqz packer. LD pkr.
7. PU and GIH with 4 3/4" MT bit on 2 7/8" tbg string to top of cement in csg at 3700'. LD and drill out cement to 5365'. Reverse circulate well clean from 5365' using 8.6 PPG cut brine water. Pressure test casing and sqzd perfs to 500 psi. If perfs leak, repeat cmt sqz procedure. **Note: Since well is a producer, a slight pressure loss is acceptable.** POH with 2 7/8" work string and bit. LD bit.
8. 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 5196-98', 5204-06', 5212-14', 5220-22', and 5234-36' with 4 JSPF at 120 degree phasing, using 23 gram premium charges. RD & release electric line unit.

9. PU and GIH w/ 5 1/2" PPI pkr (with 10' element spacing) and SCV on 2 7/8" work string to approximately 5200'. Test tbg to 5500 psi while GIH.
10. MI & RU DS Services. Acidize perfs 5196-5236' with 1,000 gals anti-sludge 15% HCl acid * at a maximum rate **as shown below** and a maximum surface pressure of **2500 psi**. Spot acid to bottom of tbg at beginning of each stage. Pump job as follows:

Interval	Amt. Acid	Max Rate	PPI Setting
5234-36'	200 gals	1/2 BPM	5230-40'
5220-22'	200 gals	1/2 BPM	5216-26'
5212-14'	200 gals	1/2 BPM	5208-18'
5204-06'	200 gals	1/2 BPM	5200-10'
5196-98'	200 gals	1/2 BPM	5192-5202'

Displace acid with 8.6 PPG cut brine water -- do not overdisplace. 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 350 psi csg pressure. If cannot, then move pkr to next setting depth and combine treatment volumes of the intervals. Do not exceed 350 psi csg pressure due to cmt sqzd perfs 4035-4103'.**

* 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

11. Set PPI pkr at 5150'. 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.**
12. Open well. Release PPI pkr. POH with work string and PPI pkr. LD 2 7/8" work string and PPI pkr.
13. 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, 5 jts 2 7/8" EUE 8R J-55 tbg, TAC, and 164 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Set TAC at 5075' with EOT suspended at 5300' and SN at 5265'.
14. Remove BOP's and install WH. GIH with rods, weight bars, and pump per ALS recommended design. RD & release pulling unit.

15. Turn well over to production. Report producing rates and fluid levels.

AMH
6/24/2003

Location:

1650' FNL & 660' FWL
 Section: 30
 Township: 21S
 Range: 37E
 County: Lea State: NM

Elevations:

GL: 3501'
 KB: 3513'
 DF: 3512'

Current
Wellbore Diagram

Well ID Info:

Chevno: BS3849
 API No: 30-025-33782
 L5/L6: U482000
 Spud Date: 2/13/97
 Compl. Date: 4/2/97

Surface Csg: 8 5/8", 24#, WC-50
Set: @ 1208' w/ 500 sks
Hole Size: 11"
Circ: Yes **TOC:** Surface
TOC By: Circulated

Tbg Detail:

SN @ 4120'
 1 jt. 2 3/8" EUE 8R J-55 IPC Tbg
 3 jts. 2 3/8" EUE 8R J-55 Tbg
 TAC @ 3991'
 126 jts. 2 3/8" EUE 8R J-55 Tbg

Perfs:

4035-39'
 4057-62'
 4066-71'
 4079-95'
 4097-4103'

Status:

San Andres - Open
 San Andres - Open
 San Andres - Open
 San Andres - Open
 San Andres - Open

CIBP @ 5400'
 (35' cmt on top)

5487-92' Blinebry - Below CIBP
 5509-24' Blinebry - Below CIBP
 5551-53' Blinebry - Below CIBP
 5578-84' Blinebry - Below CIBP
 5588-94' Blinebry - Below CIBP
 5601-04' Blinebry - Below CIBP

CIBP @ 6600'
 (35' cmt on top)

6644-55' Drinkard - Below CIBP
 6666-78' Drinkard - Below CIBP
 6684-92' Drinkard - Below CIBP
 6695-6700' Drinkard - Below CIBP

COTD: 5365'
PBTD: 5365'
TD: 6900'

Prod. Csg: 5 1/2", 15.5# WC-50
Set: @ 6900' w/ 2100 sks
Hole Size: 7 7/8"
Circ: No **TOC:** 2940'
TOC By: CBL

Updated: 6/24/03

By: A. M. Howell

Well: **V. M. Henderson # 16**

Field: Paddock

Reservoir: Paddock

Tool CODE
49210**Location:**

1650' FNL & 660' FWL
 Section: 30
 Township: 21S
 Range: 37E
 County: Lea State: NM

Elevations:

GL: 3501'
 KB: 3513'
 DF: 3512'

Proposed
Wellbore Diagram

Well ID Info:

Chevno: BS3849
 API No: 30-025-33782
 L5/L6: U482000
 Spud Date: 2/13/97
 Compl. Date: 4/2/97

Surface Csg: 8 5/8", 24#, WC-50
 Set: @ 1208' w/ 500 sks
 Hole Size: 11"
 Circ: Yes TOC: Surface
 TOC By: Circulated

Tbg Detail:

BP @ 5300'
 1 jt. 2 7/8" tbg
 2 7/8" x 4' perf sub
 SN @ 5265'
 1 jt. 2 7/8" EUE 8R J-55 IPC tbg
 5 jts. 2 7/8" EUE 8R J-55 tbg
 TAC @ 5075'
 164 jts. 2 7/8" EUE 8R J-55 tbg

Perfs:	Status:
4035-39'	San Andres - Cmt Sqzd
4057-62'	San Andres - Cmt Sqzd
4066-71'	San Andres - Cmt Sqzd
4079-95'	San Andres - Cmt Sqzd
4097-4103'	San Andres - Cmt Sqzd

5196-98'	Paddock - Open
5204-06'	Paddock - Open
5212-14'	Paddock - Open
5220-22'	Paddock - Open
5234-36'	Paddock - Open

CIBP @ 5400'
 (35' cmt on top)

5487-92'	Blaine - Below CIBP
5509-24'	Blaine - Below CIBP
5551-53'	Blaine - Below CIBP
5578-84'	Blaine - Below CIBP
5588-94'	Blaine - Below CIBP
5601-04'	Blaine - Below CIBP

CIBP @ 6600'
 (35' cmt on top)

6644-55'	Drinkard - Below CIBP
6666-78'	Drinkard - Below CIBP
6684-92'	Drinkard - Below CIBP
6695-6700'	Drinkard - Below CIBP

COTD: 5365'
 PBTD: 5365'
 TD: 6900'

Prod. Csg: 5 1/2", 15.5# WC-50
 Set: @ 6900' w/ 2100 sks
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Energy, Minerals and Natural Resources Department

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 Santa Fe, New Mexico 87504-2088

Form C-102

Revised February 10, 199

Instructions on bac

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State Lease - 4 Copie

Fee Lease - 3 Copie

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30 025 33782	² Pool Code 49210	³ Pool Name PADDOCK
⁴ Property Code 30020	⁵ Property Name V. M. HENDERSON	⁶ Well No. 16
⁷ OGRID Number 4323	⁸ Operator Name CHEVRON USA INC	⁹ Elevation 3501'

¹⁰ Surface Location

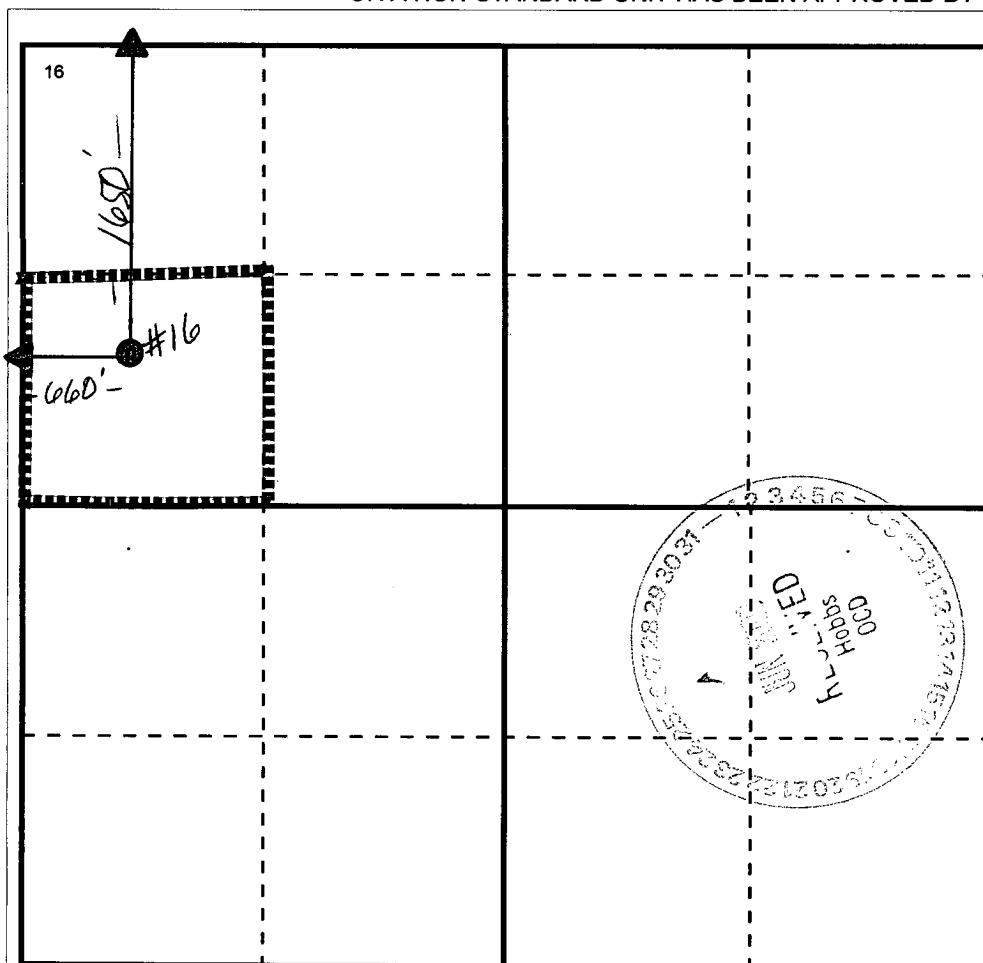
UI or lot no	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
E	30	21-S	37-E		1650	NORTH	660	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County

¹² Dedicated Acre 40	¹³ Joint or Infill No	¹⁴ Consolidation Code	¹⁵ Order No.
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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

¹⁷ OPERATOR CERTIFICATION

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

Signature

Denise Leake

Printed Name

Denise Leake

Positio

Regulatory Specialist

Date

6/25/2003

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 knowledge and
 belief.

Date Surveyed

 Signature & Seal of
 Professional Surveyor

Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0