

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

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-101

Revised February 10, 1999

Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copie
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☐ 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 RD, MIDLAND, TX 79705		² OGRID Number 4323
		³ API Number 30-025-23796
⁴ Property Code 2667	⁵ Property Name HARRY LEONARD NCT-C	⁶ Well No. 12

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
A	36	21-S	36-E		660'	NORTH	410'	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
⁹ Proposed Pool 1 PADDOCK					¹⁰ Proposed Pool 2				

¹¹ Work Type Code E	¹² WellType Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3504' GL
¹⁶ Multiple No	¹⁷ Proposed Depth 6800'	¹⁸ Formation PADDOCK	¹⁹ Contractor	²⁰ Spud Date 5/20/2005

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 FROM THE DRINKARD (TA'D) FORMATION TO THE PADDOCK RESERVOIR.

A PIT WILL NOT BE USED FOR THIS RECOMPLETION. A STEEL FRAC TANK WILL BE UTILIZED. THE CURRENT AND PROPOSED WELLBORE DIAGRAMS ARE ATTACHED FOR YOUR APPROVAL.

THE INTENDED PROCEDURE IS ATTACHED.

**Permit Expires 1 Year From Approval
Date Unless Drilling Underway
Re-Entry**

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 Pinkerton*

Printed Name Denise Pinkerton

Title Regulatory Specialist

Date 5/10/2005

Telephone 432-687-7375

OIL CONSERVATION DIVISION

Approved By: *[Signature]*

PETROLEUM ENGINEER

Approval Date: **MAY 16 2005**

Expiration Date:

Conditions of Approval:
Attached ☐

Harry Leonard (NCT-C) # 12
Paddock Field
T21S, R36E, Section 36
Job: PB To Paddock Formation

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 Donnie Ives 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 workover unit. Install BOP's and test to 1000 psi. PU 6 1/4" MT bit and GIH on 2 7/8" EUE 8R L-80 work string to top of CIBP at 6267'. Establish reverse circulation using 8.6 PPG cut brine. Reverse circulate well clean from 6267'. POH with 2 7/8" work string and 6 1/4" bit. LD bit. PU and GIH with 7" RBP and sqz pkr to 5500'. Set RBP at 5500' and pressure test to 1000 psi. Pressure annulus and test csg from 5500' to surface to 350 psi. POH with work string, pkr, and retrieving head. LD sqz pkr and retrieving head. **Note: Do not exceed 350 psi csg pressure at any time during workover due to cmt sqzd perfs at 3674-3793'. If csg fails pressure test, pinpoint leak and cmt squeeze before perforating Paddock zone. Also, well will be a producer, so a slight pressure loss is acceptable.**
3. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and conduct GR/CBL/CCL log from 5500' up to 2600'. POH. Inspect logs for good cement bond from approximately 5500' up to 5000'. 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 4" Predator casing gun and perforate from 5140-46', 5160-66', 5184-92', 5210-20', 5236-46', and 5274-78' with 4 JSPF at 120 degree phasing, using 32 gram premium charges. POH. RD & release electric line unit. **Note: Use Welex Compensated Acoustic Velocity Log dated 7/7/71 for depth correlation.**
4. PU and GIH w/ 7" PPI pkr (with 12' element spacing) and SCV on 2 7/8" work string to approximately 5140'. Test tbg to 5500 psi while GIH.
5. MI & RU DS Services. Acidize perfs 5140-5278' with 2,200 gals anti-sludge 15% HCl acid * at a maximum rate **as shown below** and a maximum surface pressure of **3500 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
5274-78'	200 gals	½ BPM	5270-82'
5236-46'	500 gals	½ BPM	5235-47'
5210-20'	500 gals	½ BPM	5209-21'
5184-92'	400 gals	½ BPM	5182-94'
5160-66'	300 gals	½ BPM	5157-69'
5140-46'	300 gals	½ BPM	5137-49'

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 350 psi csg pressure. If cannot, then move PPI to next setting depth and combine treatment volumes of the intervals. Do not exceed 350 psi casing pressure due to cmt sqzd perfs in wellbore.

* 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

- Release PPI pkr and PUH to approximately 5125'. 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.
- Open well. Release PPI pkr. POH with tbg and PPI packer. LD 2 7/8" work string and PPI tool.
- PU and GIH w/ Centrilift sub pump assembly, drain sub, 2 7/8" x 6' tbg sub, SN, and 164 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Suspend tbg with bottom of sub pump assembly at approximately 5139'.
- Remove BOP's and install WH. RD & release workover unit.
- Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

AMH
5/10/2005

WELL DATA SHEET

Field: Drinkard **Well Name:** Harry Leonard NCT-C #12
Location: 660' FNL & 410' FEL **Sec:** 36 **Township:** 21S **Range:** 36E
County: Lea **St:** New Mexico **Refno:** FG8649 **API:** 30-025-23796 **Cost Center:** UCU415200
Current Status: Temp Abandoned **Anchor Test Date:**
Current Producing Formation(s): Drinkard (TA'd)
Initial Producing Formation(s): Blinebry

CURRENT

Surface Csg.

Size: 9 5/8"
 Wt.: 36#
 Set @: 1230'
 Sxs cmt: 500
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"

Production Csg.

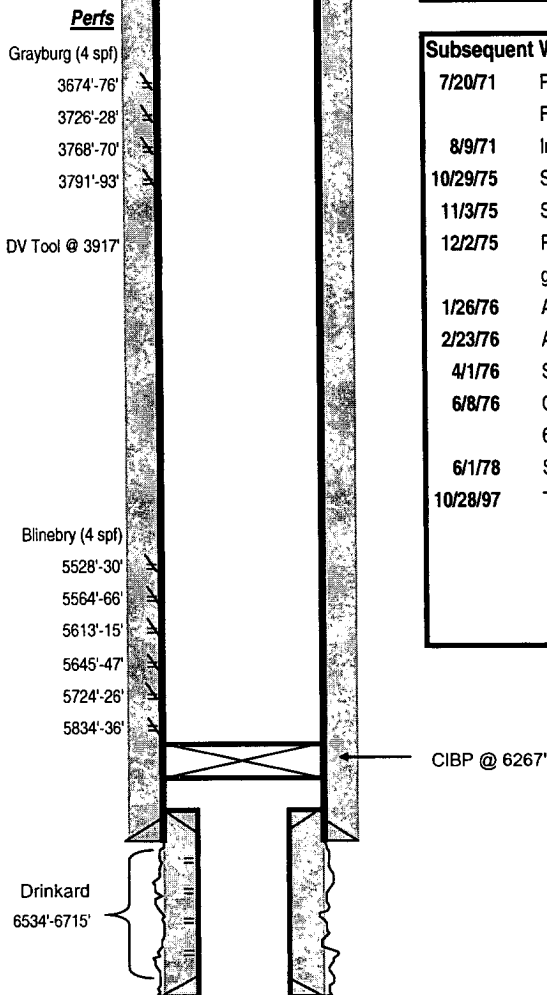
Size: 7"
 Wt.: 20# & 23#
 Set @: 5999'
 Sxs cmt: 665
 Circ: No
 TOC: 2410' by TS
 Hole Size: 8 3/4"

Liner

Size: 4 1/2"
 Wt.: 11.6#
 TOL: 5883'
 BOL: 6798'
 Sxs Cmt: 150
 Circ: Yes
 TOC: 5883'
 Hole Size: 6 1/4"

COTD:
 PBTD: 6267'
 TD: 6800'

Yates 2628
 7 Rivers 2887
 Queen 3356
 Grayburg 3643
 Glorieta 5150
 Blinebry 5510



KB:
 DF:
 GL: 3504'
 Spud Date: 6/23/1971
 Compl. Date: 7/14/1971

Initial Completion: Blinebry

Acdz w/ 750 gals 15% & frac'd w/ 54,000# sand
 BOPD: 122
 MCFPD: 0
 BWPD: 114

Subsequent Workovers:

7/20/71 Perf'd Grayburg (Arrowhead) from 3674'- 3793'.
 Frac'd w/ 36000# sand. IP: 38 bo, 93 bw
 8/9/71 Install unit for dual completion of Blinby/Grybg
 10/29/75 Sqz Grayburg w/ 300 sxs
 11/3/75 Sqz 5528'-5615' (Blinebry) w/ 125 sxs
 12/2/75 Perf'd Drinkard from 6534'-6715'. Acdz w/ 3400
 gal 15% & frac w/ 5000 gal (cont 1-2 ppg sand)
 1/26/76 Acdz w/ 3655 gal
 2/23/76 Acdz w/ 5000 gal 15%
 4/1/76 SI Blinebry, Drinkard open
 6/8/76 Commingled Blinebry & Drinkard. Pumping
 60 bopd & 44 bwpd
 6/1/78 Sqz 5645'-5836' (Blinebry) w/ 125 sxs
 10/28/97 Temp Abandon. Set CIBP @ 6267'

Remarks:

Prepared by: MRV
 Date: 9/29/2003
 Updated by:

WELL DATA SHEET

Field: <u>Paddock</u>	Well Name: <u>Harry Leonard NCT-C #12</u>	
Location: <u>660' FNL & 410' FEL</u>	Sec: <u>36</u> Township: <u>21S</u> Range: <u>36E</u>	
County: <u>Lea</u> St: <u>New Mexico</u>	Refno: <u>FG8649</u> API: <u>30-025-23796</u>	Cost Center: <u>UCU415200</u>
Current Status: <u>Producing</u>	Anchor Test Date: _____	
Current Producing Formation(s): _____	Paddock	
Initial Producing Formation(s): _____	Blinebry	

Surface Csg.

Size: 9 5/8"
Wt.: 36#
Set @: 1230'
Sxs cmt: 500
Circ: Yes
TOC: Surface
Hole Size: 12 1/4"

Production Csg.

Size: 7"
Wt.: 20# & 23#
Set @: 5999'
Sxs cmt: 665
Circ: No
TOC: 2410' by TS
Hole Size: 8 3/4"

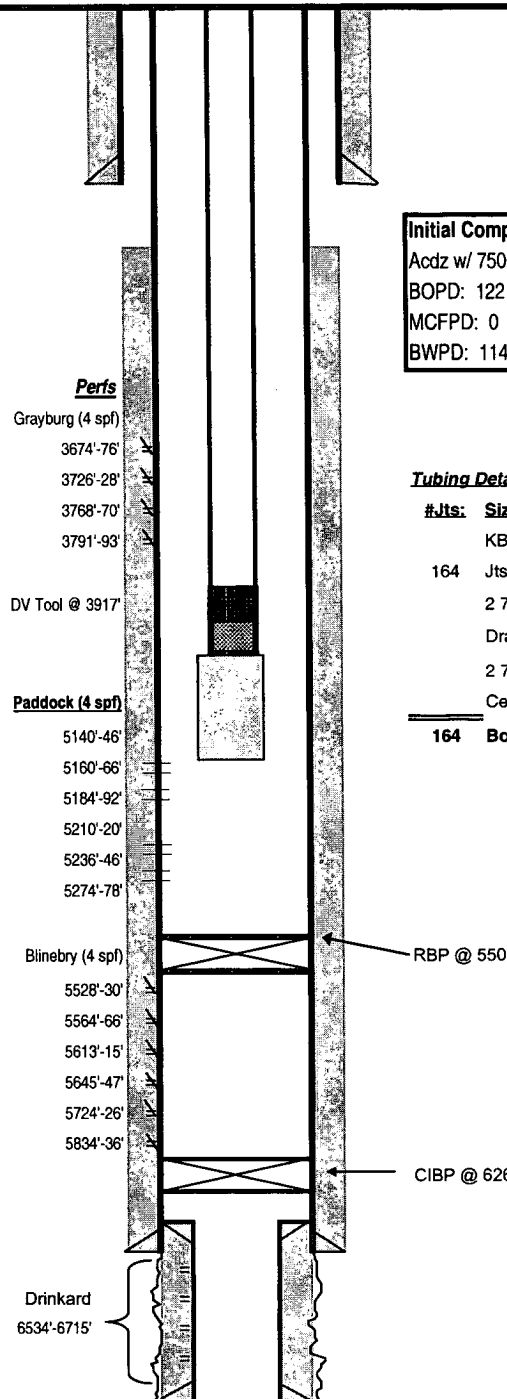
Liner

Size: 4 1/2"
Wt.: 11.6#
TOL: 5883'
BOL: 6798'
Sxs Cmt: 150
Circ: Yes
TOC: 5883'
Hole Size: 6 1/4"

COTD: _____
PBTD: 6267'
TD: 6800'

Yates	<u>2628</u>
7 Rivers	<u>2887</u>
Queen	<u>3356</u>
Grayburg	<u>3643</u>
Glorieta	<u>5150</u>
Blinebry	<u>5510</u>

PROPOSED



KB: 3516'
DF: 3514'
GL: 3504'
Spud Date: 6/23/1971
Compl. Date: 7/14/1971

Initial Completion: Blinebry

Acidz w/ 750 gals 15% & frac'd w/ 54,000# sand
BOPD: 122
MCFPD: 0
BWPD: 114

Tubing Detail:

#Jts:	Size:	Footage
	KB Correction	12.00
164	Jts. 2 7/8" J-55 Cl. 'B'	5084.00
	2 7/8" x 6' Tbg Sub	6.00
	Drain Valve	0.55
	2 7/8" x 2 3/8" X-Over	0.60
	Centriflgt Sub Pump	35.41
164	Bottom Of Mtr >>	5138.56

Remarks: _____

Prepared by: MRV
Date: 5/9/2005
Updated by: AMH

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Energy, Minerals and Natural Resources Department

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Form C-102

Revised February 10, 1999

Instructions on bac

Submit to Appropriate District Office

State Lease - 4 Copie

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-23796	² Pool Code 49210	³ Pool Name PADDOCK
⁴ Property Code 2667	⁵ Property Name HARRY LEONARD NCT-C	⁶ Well No. 12
⁷ OGRID Number 4323	⁸ Operator Name CHEVRON USA INC	⁹ Elevation 3504' 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
A	36	21-S	36-E		660'	NORTH	410'	EAST	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.				

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="position: relative; height: 800px;"><div style="position: absolute; top: 10px; left: 10px; width: 50px; height: 50px; border: 1px solid black; display: flex; align-items: center; justify-content: center;">16</div><div style="position: absolute; top: 100px; left: 100px; width: 150px; height: 150px; border: 2px solid black;"><div style="position: relative; height: 150px;"><div style="position: absolute; top: 0; left: 50%; transform: translateX(-50%);">#12</div><div style="position: absolute; top: 0; right: 0;">660'</div><div style="position: absolute; bottom: 0; right: 0;">410'</div></div></div></div>	<div style="border-bottom: 1px solid black; padding-bottom: 5px;">17 OPERATOR CERTIFICATION</div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;">I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;">Signature <i>Denise Pinkerton</i></div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;">Printed Name Denise Pinkerton</div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;">Positio Regulatory Specialist</div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;">Date 5/10/2005</div>
	<div style="border-bottom: 1px solid black; padding-bottom: 5px;">18 SURVEYOR CERTIFICATION</div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;">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.</div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;">Date Surveyed</div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;">Signature & Seal of Professional Surveyor</div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;">Certificate No.</div>
	<div style="border-bottom: 1px solid black; padding-bottom: 5px;"> </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> </div>
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