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. 30-025-23796

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: HARRY LEONARD NCT-C

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

2. Name of Operator: CHEVRON USA INC

8. Well No. 12

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

9. Pool Name or Wildcat: PADDOCK

4. Well Location

Unit Letter A : 660' Feet From The NORTH Line and 410' Feet From The EAST Line

Section 36 Township 21-S Range 36-E NMPM LEA COUNTY

10. Elevation (Show whether DF, RKB, RT,GR, etc.) 3504' 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 PADDOCK & 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 PADDOCK FORMATION & CO2 FRAC STIMULATE.

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

Received
Hobbs
OCD

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

SIGNATURE Denise Pinkerton TITLE Regulatory Specialist DATE 2/22/2007

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

(This space for State Use)

APPROVED Gary W. Wink TITLE OC FIELD REPRESENTATIVE II/STAFF MANAGER DATE MAR 07 2007

CONDITIONS OF APPROVAL, IF ANY:

DeSoto/Nichols 12-93 ver 1.0

Harry Leonard (NCT-C) # 12
Paddock Field
T21S, R36E, Section 36
Job: Add Perfs In Paddock Formation And Frac

Procedure: (Revised 2/21/07)

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 LD 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 6 ¼" MT bit and 2 7/8" work string to 5500'. 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 3/8" Predator casing guns and perforate from 5288-92', 5326-32', 5346-50', 5371-79', 5402-08', and 5438-46' with 4 JSPF at 120 degree phasing, using 32 gram premium charges. POH. RD & release electric line unit. **Note: Use casing collars from Baker Atlas Cement Bond Log dated 6/15/2005 for depth correlation.**

6. PU and GIH w/ 7" PPI pkr (with 12' element spacing) and SCV on 2 7/8" work string to approximately 5100'. Test tbg to 5500 psi while GIH.

7. MI & RU DS Services. Acidize perfs 5140-5446' 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
5438-46'	200 gals	½ BPM	5436-48'
5402-08'	200 gals	½ BPM	5400-12'

5371-79'	200 gals	½ BPM	5370-82'
5346-50'	200 gals	½ BPM	5340-52'
5326-32'	200 gals	½ BPM	5322-34'
5288-92'	200 gals	½ BPM	5286-98'
5274-78'	200 gals	½ BPM	5270-82'
5236-46'	200 gals	½ BPM	5235-47'
5210-20'	200 gals	½ BPM	5209-21'
5184-92'	200 gals	½ BPM	5182-94'
5160-66'	200 gals	½ BPM	5157-69'
5140-46'	200 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

8. Release PPI pkr. Flush annulus and fish SCV. LD to approximately 5475'. Set PPI pkr at 5475'. Pressure test RBP at 5500' to 2000 psi. PUH with PPI pkr to 5100'. Set PPI pkr at 5100'. 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/ 7" 10K treating 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 350 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication. **Note: Do not exceed 350 psi casing pressure due to cmt sqzd perfs in wellbore from 3674-3793'.**

11. MI & RU DS Services and Tracer-Tech Services (Mike Mathis (866) 595-3115). Frac well down 3 ½" tubing at **30 BPM** with 63,000 gals of 50-70 Quality CO2 Foamed WF150 and 99,000 lbs. 16/30 mesh Jordan Sand. Observe a maximum surface treating pressure of **8000 psi**. Tag frac with 1 radioactive isotope in all sand stages. Pump job as follows:

Pump 25,000 gals WF150 70Q Foam pad
Pump 14,000 gals WF150 50Q Foam pad containing 0.5 PPG 16/30 mesh Jordan Sand
Pump 5,000 gals WF150 50Q Foam containing 1 PPG 16/30 mesh Jordan Sand
Pump 5,000 gals WF150 50Q Foam containing 2 PPG 16/30 mesh Jordan Sand
Pump 6,000 gals WF150 50Q Foam containing 3 PPG 16/30 mesh Jordan Sand
Pump 6,000 gals WF150 50Q Foam containing 4 PPG 16/30 mesh Jordan Sand
Pump 7,000 gals WF150 50Q Foam containing 5 PPG 16/30 mesh Jordan Sand and PropNET.

Flush to 5000' with 1,954 gals WF150. **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. Note: DS should bring enough PropNet to location to add to 4 PPG sand stage if needed for pressure reduction.**

12. Open well. Bleed off pressure. Pump down tbg with 8.6 PPG cut brine water if necessary to kill well. Release pkr and POH with 3 ½" work string. Lay down 3 ½" work string and pkr.

13. PU and GIH with 6 ¼" MT bit and bailer on 2 7/8" work string to 5500'. If fill is found, clean out to 5500' using 8.6 PPG cut brine water and bailer. POH with 2 7/8" work string, bailer, and bit. LD bailer and bit.

14. PU & GIH with 7" pkr on 2 7/8" tbg string to 5000'. Set pkr at 5000'. **Do not swab well**. 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 5500' up to 5000'. POH. RD & release electric line unit. **Note: Correlate logs and run flat with Baker Atlas Cement Bond Log dated 6/15/2005. Also, do not swab well before running PRISM Log.**

15. MI & RU pump truck. Pump down tbg with 50 bbls 8.6 PPG cut brine water containing 110 gals Baker RE-4777 Scale Inhibitor followed by 200 bbls 8.6 PPG cut brine water at **5 BPM** and **2500 psi maximum pressure**. RD and release pump truck. Release pkr. POH LD 2 7/8" work string and packer.

16. PU and GIH w/ Centrilift sub pump assembly, 2 7/8" x 6' tbg sub, drain sub, and 163 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Suspend tbg with bottom of sub pump assembly at approximately 5100'.

17. Remove BOP's and install WH. RD & release workover unit.

18. Turn well over to production. **Leave well shut in for 2 weeks after rig moves off for CO2 to soak.** Put well on production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

AMH/JP
2/20/2007

WELL DATA SHEET

Field: Paddock **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: Producing **Anchor Test Date:**
Current Producing Formation(s): Paddock
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.

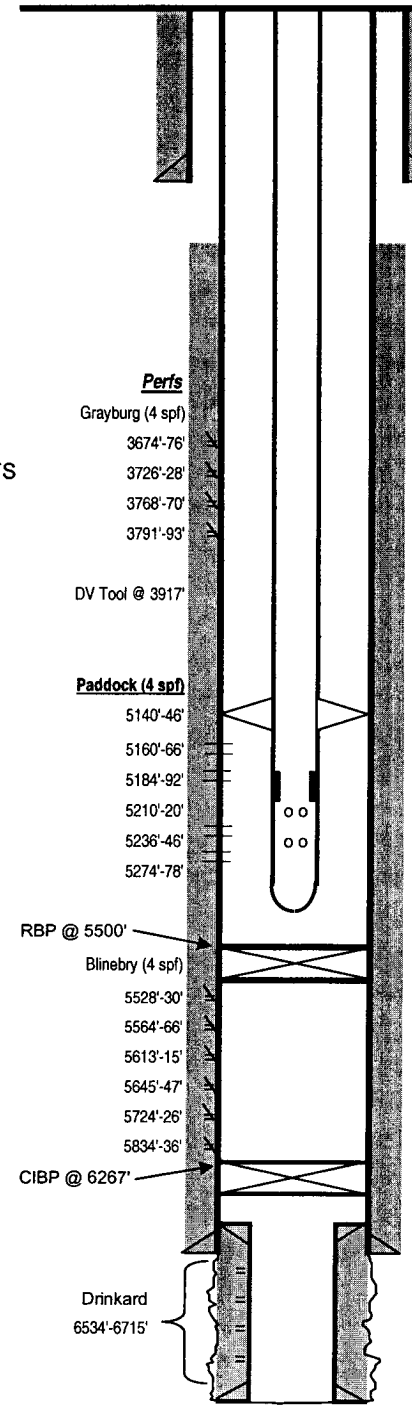
Size:	7"
Wt.:	20# & 23#
Set @:	5999'
Sxs cmt:	665
Circ:	No
TOC:	2410' by TS
Hole Size:	8 3/4"

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:	5500'
TD:	6800'

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



KB:	3516'
DF:	3514'
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

Tubing Detail:

#Jts:	Size:	Footage
	KB Correction	12.00
158	Jts. 2 7/8" J-55 Cl. 'B' Tbg	5000.28
	TAC	2.70
10	Jts. 2 7/8" J-55 Cl. 'B' Tbg	318.32
1	Jts. 2 7/8" J-55 Cl. 'B' IPC Tbg	32.25
	SN	1.10
	BP MA Jt of 2 7/8" Tbg	32.00
169	**Bottom Of String >>**	**5398.65**

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.

Remarks:

Prepared by: MRV
Date: 2/13/2007
Updated by: AMH

WELL DATA SHEET

Field: Paddock **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: Producing **Anchor Test Date:**
Current Producing Formation(s): Paddock
Initial Producing Formation(s): Blinebry

PROPOSED

Surface Csg.

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

Production Csg.

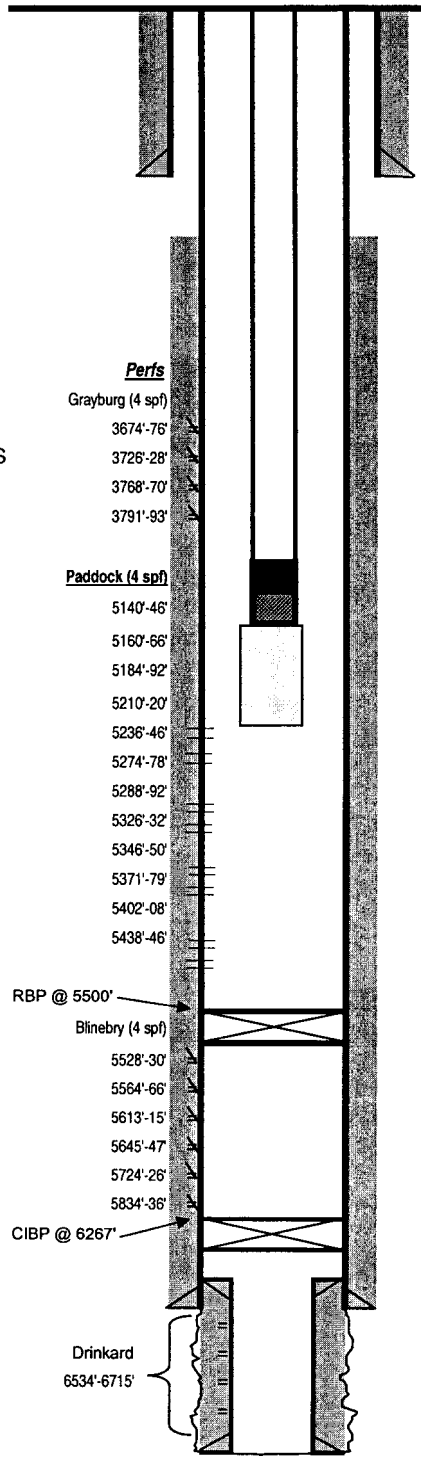
Size:	7"
Wt.:	20# & 23#
Set @:	5999'
Sxs cmt:	665
Circ:	No
TOC:	2410' by TS
Hole Size:	8 3/4"

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:	5500'
TD:	6800'

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



KB:	3516'
DF:	3514'
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

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
	Centrilift Sub Pump	35.41
164	**Bottom Of Mtr >>**	**5138.56**

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Remarks:

Prepared by: MRV
Date: 2/13/2007
Updated by: AMH