

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., 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-103
June 19, 2008

RECEIVED
NOV 19 2010
HOBBSON
CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-06359
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator CHEVRON U.S.A. INC.		6. State Oil & Gas Lease No.
3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705		7. Lease Name or Unit Agreement Name HARRY LEONARD NCT-F
4. Well Location Unit Letter G: 3312 feet from the SOUTH line and 2307 feet from the EAST line Section 2 Township 21-S Range 37-E NMPM County LEA		8. Well Number 15
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3489' GL		9. OGRID Number 4323
		10. Pool name or Wildcat HARE SIMPSON

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: INTENT TO ADD PAY & FRAC, & RTP

OTHER:

13. 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. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

CHEVRON U.S.A. INC. INTENDS TO CLEANOUT THE WELLBORE, ADD PAY IN THE SIMPSON FORMATION & FRAC STIMULATE, AND RETURN TO PRODUCTION.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAMS, & C-144 INFO.

Spud Date:

Rig Release Date:

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 11-16-2010

Type or print name DENISE PINKERTON

E-mail address: leakejd@chevron.com

PHONE: 432-687-7375

For State Use Only

APPROVED BY:

[Signature]

TITLE

PETROLEUM ENGINEER

DATE

NOV 23 2010

Conditions of Approval (if any):

Conditions of Approval:

OCD requires the Operator to complete a 24 hours production test and submit on form C-104 Request for Allowable before producing this well. Accompanied by Subsequent report with dates and what was done, perms producing from, along with tubing size and depth.

Harry Leonard (NCT-F) # 15
Hare Field
T21S, R37E, Section 2

Job: Cleanout Wellbore, Add Perfs In Simpson Formation And Frac Stimulate

Procedure: (Revised: 10/26/2010)

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 10/19/2010. 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/1000 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. **Note: Prior to performing this step of the procedure, ensure that all valves, pipe, and fittings that will be exposed to test pressure are rated higher than the planned test pressure.**
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. Remove WH. Install BOP's and stripper head. PU AS1X 5 1/2" x 2 7/8" pkr. RIH to approximately 25'. Test csg to 500 psi. Test BOP's to 250 psi low, 2000 psi high. LD jt of 2 7/8" tbg and pkr.
4. PU 4 3/4" MT bit, bit sub, float, 4 - 3 1/2" DC's and GIH on 2 7/8" L-80 work string to 4000'. Unload hole. Establish circulation with Well-Foam air unit (as per attached air foam procedure) and strip in hole to top of CIBP at 7725'. Lower down and drill out CIBP at 7725'. Strip in hole to top of cement in 5 1/2" casing at 8112'. Lower down and drill out cement in 5 1/2" casing to 8150'. **Do not drill deeper than 8150'**. Circulate well clean from 8150' using foam. POH LD 2 7/8" work string and bit. RD & release air unit.
5. MI & RU Baker Atlas/Schlumberger electric line unit. Install lubricator and test to 2000 psi. GIH and conduct GR/CNL/CCL log from TD at 8150' up to 6150'. POH. E-mail log to Caleb Osborn (COFT@chevron.com) for picking new perfs. GIH with 3 3/8" RHSC Gunslinger casing guns (0.42" EH & 47" penetration) and perforate from 8070-80', 8104-8120', and 8130-40' with 4 JSPF at 120 degree phasing, using 25 gram premium charges. POH. RD & release electric line unit. **Note: Use Schlumberger Electric Log dated 10/2/1954 for depth correlation. Also, the above proposed perfs will be revised following receipt of new log.**
6. PU and GIH w/ 5 1/2" 10K treating pkr & On-Off tool w/ 2.25" frac-hardened "F" profile and 210 jts. of 3 1/2" EUE 8R L-80 work string, testing to 8500 psi. Set pkr at approximately 6000'. Install frac head. Pressure annulus to 500 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication.

7. RD and release workover rig. Notify Louis w/ Schlumberger (575-910-2461) to spot 3 frac tanks on location and fill with fresh water.
8. MI & RU Schlumberger Services. Frac well down 3 ½" tubing at **35 BPM** with 50,000 gals of YF130 and 118,000 lbs **resin-coated** 20/40 mesh proppant. Observe a maximum surface treating pressure of **8000 psi**. Pump job as follows:

Pump 2,000 gals 2% KCL water pre-pad

Pump 10,000 gals YF130 pad containing 5 GPT J451 Fluid Loss Additive

Pump 10,000 gals YF130 containing 0.5 PPG **resin-coated** 20/40 mesh Jordan Sand

Pump 4,000 gals YF130 containing 1 PPG **resin-coated** 20/40 mesh Jordan Sand

Pump 4,000 gals YF130 containing 2 PPG **resin-coated** 20/40 mesh Jordan Sand

Pump 5,000 gals YF130 containing 3 PPG **resin-coated** 20/40 mesh Jordan Sand

Pump 5,000 gals YF130 containing 4 PPG **resin-coated** 20/40 mesh Jordan Sand

Pump 6,000 gals YF130 containing 5 PPG **resin-coated** 20/40 mesh Jordan Sand

Pump 6,000 gals YF130 containing 6 PPG **resin-coated** 20/40 mesh Jordan Sand.

Flush to 7600' with 3,800 gals WF130. **Do not overflush.** Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release Schlumberger Services. **Leave well SI overnight. Do not flow back.**

9. MIRU workover rig. Open well. Bleed pressure from well, if any. Release pkr. POH LD 3 ½" work string, on-off tool, and pkr.
10. PU and GIH with 4 ¾" MT bit, bit sub, and float on 2 7/8" J-55 production tbg to 3500'. Establish circulation with Well-Foam air unit and strip in hole to top of fill in 5 ½" casing. Lower down and cleanout fill in 5 ½" casing to TD at 8150'. Circulate well clean from 8150' using foam. POH with 2 7/8" production tbg string and bit. LD bit. RD and release air unit.
11. 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, 12 jts 2 7/8" EUE 8R J-55 tbg, TAC, and 245 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Set TAC at 7605', with EOT at 8050' and SN at 8015'.
12. Remove BOP's and install WH. GIH with rods, weight bars, and pump per ALS recommended design. RD & release pulling unit.
13. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

D&C

10/26/2010

Foam / Air Cleanout Procedure

1. **Review All JSA's associated with work. Ensure exclusion zones are identified and communicated to all personnel. Ensure All Lines are Hobbled.**
2. Install flowback manifold with two chokes. All components on flowback manifold must be rated to at least 3,000 psi. Flowback manifold components should be hydrotested before delivery. Recommend mandating proof of testing from vendor.
3. Install flowback tank downwind from rig.
4. Install test plug in wellhead. Close pipe rams and pressure test connection between BOP and wellhead to 250 psi/2,000 psi. Bleed off pressure.
5. Open pipe rams and close annular. Pressure test connection between BOP and wellhead to 250/1,500 psi. Bleed off pressure. Open annular. Remove test plug.
6. NU stripper head with **NO Outlets** (Check stripper cap for thread type – course threads preferred). **Stripper head to be stump tested to 1,000 psi before being delivered to rig. Ensure stump test documentation can be provided upon arrival.**

Before rigging up power swivel to rotate, carefully inspect Kelly hose to ensure that it is in good condition. Ensure that swivel packing is in good condition.

7. RIH to ~3500' (above OH or perfs), RU foam air unit. **Install flapper type float at surface and remove spring before beginning to pump.** Break circulation with foam/air. Evacuate fluid from well.

Pump high quality foam at all times. Do not pump dry air at any time. Fluid injection rates will generally be above 12 gallons per minute.

Whenever there is pressure on the stripper head, have a dedicated person continuously monitor pressure at choke manifold and have a dedicated person at accumulator ready to close annular BOP in case stripper leaks. Do not allow pressure on stripper head to exceed 500 psi. If pressure cannot be controlled below 500 psi, stop pumping, close BOP and bleed off pressure.

8. Strip in hole until tag.
9. Rig up power swivel. Break circulation with foam/air. Install float at surface before beginning to pump. Cleanout as per original procedure. Circulate hole clean.
10. Kill tubing and casing using Brine water. If needed.
11. POOH LD workstring and bit. Brine water down tubing to put tubing on vacuum to help eliminate trapped pressure before breaking out string floats. **Have foam-air hand on location during this process.**
12. ND Stripper and flowback manifold.
13. Resume original procedure.

Well: **Harry Leonard (NCT-F) # 15**Field: **Hare**Reservoir: **Simpson****Location:**

3312' FSL & 2317' FEL
 Section: 2 Unit Letter: O
 Township: 21S
 Range: 37E
 County: Lea State: NM

Elevations:

GL: 3489'
 KB: 3500'
 DF: 3499'

Current
Wellbore Diagram

Well ID Info:

Refno: FA7475
 API No: 30-025-06359
 L5/L6: U900200
 Spud Date: 8/24/54
 Compl. Date: 10/7/54

Surf. Csg: 13 3/8", 48# H-40
Set: @ 325' w/ 375 sks
Hole Size: 17 1/2"
Circ: Yes **TOC:** Surface
TOC By: Circulated

Interm. Csg: 8 5/8", 32#, J-55
Set: @ 3003' w/ 1350 sks
Hole Size: 11"
Circ: No **TOC:** 310'
TOC By: Temperature Survey

Tubing Detail:

#Jts:	Size:	Footage
KB Correction		11.00
None		

0 Bottom Of String >> 11.00

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.

CIBP @ 7725'
 (No cmt on top)

COTD: 7725'
PBTD: 7725'
TD: 8150'

Updated: 10/19/2010

By: A. M. Howell

Perfs:	Status:
7778-7910'	Simpson - Open
7928-8018'	Simpson - Open
8036-54'	Simpson - Open
8094-8104'	Simpson - Open

Prod. Csg: 5 1/2", 14#, 15.5#, & 17# J-55
Set: @ 8149' w/ 950 sks
Hole Size: 7 7/8"
Circ: No **TOC:** 2880'
TOC By: Temperature Survey

Well: **Harry Leonard (NCT-F) # 15**Field: **Hare**Reservoir: **Simpson****Location:**

3312' FSL & 2317' FEL
 Section: 2 Unit Letter: O
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Proposed
Wellbore Diagram

Well ID Info:

Refno: FA7475
 API No: 30-025-06359
 L5/L6: U900200
 Spud Date: 8/24/54
 Compl. Date: 10/7/54

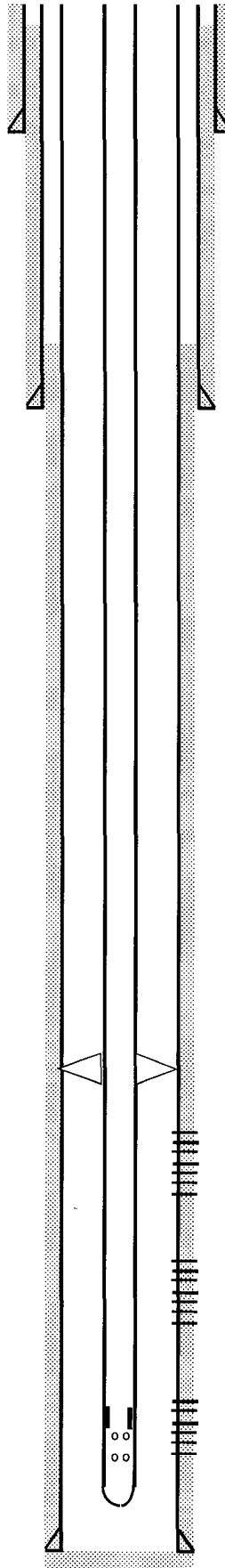
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Interm. Csg: 8 5/8", 32#, J-55
Set: @ 3003' w/ 1350 sks
Hole Size: 11"
Circ: No **TOC:** 310'
TOC By: Temperature Survey

Tubing Detail:

#Jts:	Size:	Footage
	KB Correction	11.00
245	Jts. 2 7/8" EUE 8R J-55 Tbg	7595.00
	TAC	2.70
12	Jts. 2 7/8" EUE 8R J-55 Tbg	372.00
1	Jts. 2 7/8" EUE 8R J-55 IPC Tbg	32.53
	SN	1.10
	2 7/8" x 4' Perf Tbg Sub	4.00
1	Jt. 2 7/8" EUE 8R J-55 Tbg	31.00
	Bull Plug	0.50
259	Bottom Of String >>	8049.83

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7928-8018'	Simpson - Open
8036-54'	Simpson - Open
8070-80'	Simpson - Open
8094-8104'	Simpson - Open
8107-20'	Simpson - Open
8130-40'	Simpson - Open

COTD: 8150'
 PBTD: 8150'
 TD: 8150'

Updated: 10/19/2010

By: A. M. Howell

Prod. Csg: 5 1/2", 14#, 15.5#, & 17# J-55
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