

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
Revised March 25, 1999

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-04935
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
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 A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		7. Lease Name or Unit Agreement Name: Harry Leonard (NCT) C
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		
2. Name of Operator Chevron U.S.A. Inc	8. Well No. 8	
3. Address of Operator P. O. Box 1150, Midland, TX 79702	9. Pool name or Wildcat Eumont; Yates-7 Rivers-Queen	
4. Well Location Unit Letter H: 1980 feet from the North line and 660 feet from the East line Section 36 Township 21S Range 34E NMPM County LEA		
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 3487' GR		

11. 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 COMPLETION ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

- REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☒
CASING TEST AND CEMENT JOB ☐
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. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

This well is part of the New Mexico "P&A Pilot Project" conducted by Benterra Corporation to demonstrate the plugging and abandonment process using highly compressed sodium bentonite nodules as the plugging medium.

Cement Retainer @ 3518'
Perf Plug @ 3204' - 3472' 43 cu ft Zonite Tagged
B/Salt Plug @ 2647' - 2750' 14 cu ft Zonite Tagged
Rustler Plug @ 1585' - 1690' 15 cu ft Zonite Tagged
Zonite Plug @ 326' - 345' 1 1/2 cu ft Zonite Tagged
Cavity Shot from 283' - 293'
Shoe/FW Plug @ 180' - 293' 20 cu ft Zonite Tagged
Top Plug @ 3' - 33' 4 1/2 cu ft Zonite
Squeezed 9 5/8" x 5 1/2" annulus with 60 Class C cement

Set marker. Chevron to clean location.
Plugging operations began 10/11/01 and were completed 9/24/02.

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

SIGNATURE B. R. Bledsoe TITLE HES Specialists DATE 10/10/2002

Type or print name Garland Bledsoe Telephone No. (915)687-7153

(This space for State use)

APPROVED BY [Signature] TITLE Asst Rep DATE 2-12-03
Conditions of approval if any
GWW
QC FIELD REPRESENTATIVE / STAFF MANAGER
FEB 10 2003

Well Name: Harry Leonard (NCT-C) #8
API Number: 30-025-04935
Coordinates: 1980 FNL & 660 FEL
S - T - R: 36 - 21S - 36E Unit H
County / State: Lea, NM
Drilled: 1944

Operator: Chevron
Field: Eumont
Date: 10/7/02
By: DCD

RKB = 9'

Top Plug 3' - 33'
(4 1/2 cu ft ZONITE)
Wiper plug @ 33'

Cemented annulus with 60 sx Class C

3/21/02 - 15 bbls FW poured in annulus, no fillup, on vacuum
4/4/02 - 10 bbls FW poured in annulus, no fillup, on vacuum

FW/Shoe Plug 180' - 293' w/ 20 cu ft ZONITE

Could not document any Zonite behind pipe volumetrically
95/8" - 3-guage Armco spiral weld slip jnt csg @ 293' w/ 235sx, circ

Cavity shot from 283' - 293' (1/16/02)

Zonite from 326' - 345'

Wiper plug @ 345'

TOC 1160'

Rustler @ 1640'

105' Rustler plug 1585' - 1690' (15 cu ft ZONITE)

Wiper plug @ 1690'

B/Salt = 2480' (Per Chevron)

B/Salt = 2700' (Per Paul Kautz)

103' Zonite B/salt plug 2647' - 2750' (14 cu ft ZONITE)

Wiper plug @ 2750'

268' ZONITE Perf plug 3204' - 3472'
(43 cu ft ZONITE)

3359'-61'

3384'-86'

3411'-13'

3468'-71'

3486'-88'

Top of fill at 3472'

CR @ 3518'

SQZ Perfs w/150 sx cmt

3532'-34'

3552'-54'

3572'-74'

3594'-96'

3610'-12'

3629'-31'

CIBP @ 3675'

51/2" - 14# H, 8rdCsg @ 3700' w/ 200 sx, TOC = 1160' by calc.

3518' PTD

3780' TD

Formation Tops	
Rustler	1640'
B/Salt(Chevron)	2480'
Yates	2604'
B/Salt(Paul Kautz)	2700'
Knight	3370'
Penrose	3480'
Eunice Dolomite	3640'

ZONITE Plugs	
3 - 33'	Top Plug
180' - 293'	Shoe / FW - Cavity Shot
326' - 345'	Cavity Shot Plug
1585' - 1690'	Rustler
2647' - 2750'	B/Salt
3204' - 3472'	Perf Plug

OPERATOR Chevron U.S.A. Production Company			DATE See Below		
LEASE & WELL NUMBER Harry Leonard (NCT-C) #8			COUNTY & STATE Lea, New Mexico		
FIELD Eumont			FORMATION Yates 7 Rivers Queen		
TD 3780'	PBD 3518'	RKB 13'	PERFS 3359' – 3488'		
SURFACE 95/8" @ 293'	INTERMEDIATE	PRODUCTION 5½" - 3700'	CIBP DEPTH 3675'		
OPERATOR CHARGE CODE UWPWBA1032ABN			BENTERRA CHARGE CODE NWNMR-00101-016		
This well is part of the New Mexico "P&A Pilot Project" conducted by Benterra Corporation to demonstrate the plugging and abandonment process using highly compressed sodium bentonite nodules as the plugging medium.					
10/11/01					
Wellhead not packed off, no press on wellhead or surface pipe. RU Pool pump truck and pumped 65 bbl FW – all on vacuum. RD Pool.					
10/15/01					
MIRU Benterra #4. SIP = 0 psi, WH not packed off. WIH with 2" SB and tag btm at 3472'. FL at 670' – questionable data. Gravity 50 bbl fresh water into wellbore. RD truck to go for another 50 BW (no transports or pump trucks available from Key or Pool). Rigged back up and dump add'l 50 bbl fresh water. Poured 17 cu ft ZONITE, wait and tag at 3348'. FL at 2150' Poured 10 cu ft ZONITE, wait and tag at 3276'. Poured 7 cu ft ZONITE, wait and tag at 2028' – bridged. Unable to dislodge with 2" SB. POH and run 3½" SB, no success in breaking bridge. Close well in and SDON. RU Key pump truck to attempt to clear the bridge. Pumped 100 bbl fresh water on vac. RD Key.					
10/16/01					
RU Benterra #4. SIP = static, WH not packed off. WIH with 3½" SB, tagged at 3270'. (Note: no bridge at 2028', however, top of plug was too deep based on earlier tag at 3276' that was followed by pouring 7 cu ft ZONITE – top should have been at +/- 3225'). FL at 100' FS. Poured add'l 9 cu ft ZONITE, wait and tag @ 3204'. FL at 250' FS. Bottom plug set from 3204' – 3472' with 43 cu ft ZONITE as of 12:20 PM 10/16/01. Installed WH equip. RD Benterra.					
10/22/01					
MIRU Benterra Unit #4. SIP = static. Remove WH and WIH with SB, tag plug at 3204', OK. FL at 135' FS. POH. Pushed 5½" wiper rubber to 2750'. POH. Stabilizer bar for depthometer broke – move off location to weld. Moved back onto well, poured 14 cu ft ZONITE, wait and tag at 2647'. B/Salt plug set 2647' – 2750' with 14 cu ft ZONITE as of 2:00 PM 10/22/01. Pushed 5½" wiper rubber to 1690'. Poured 15 cu ft ZONITE, wait and tag at 1585'. T/Salt – Rustler plug set 1585' – 1690' with 15 cu ft ZONITE as of 4:30 PM 10/22/01. Install WH and SWI. RD Benterra.					
12/10/01					
WH defective and not sealing. No visible signs of leakage. No pressure on 95/8" x 5½".					

12/19/01

Same status as 12/10/01.

12/26/01

RU Benterra #4. No press on WH – not sealed. Made trip with SB to top of plug, tagged at 1590', OK. RD.

1/14/02

WH defective, no SIP. Install wellhead adapter flange, loaded with 10 bbl freshwater, FL @ 15' FS. SWI. Re-check in afternoon, load to surface with ½ BFW, FL slowly dropping off. SWI.

1/16/02

MIRU Key WL and mast. Install well control equip and prep cavity shot, 26 – 4 ½" x 2 ¼" cast boosters = 10'. RU Key vac and pump trucks. Loaded 5½" csg with 3 BW. WIH with cavity shot to 340', realized cut plug had not been set. POH and make charge safe. MIRU Benterra #4. Push 5½" wiper rubber to 345' and cap with ZONITE to 326'. WIH with cavity shot, misfire. Made 2nd run, cap fired but shot did not fire. Made 3rd run and fired cavity shot at 283' – 293', adapter flange with WL BOP separated from tbg hd and had +/- 40' fresh water plume at wellhead, ceased in <10 sec. All of wireline and 30' nylon rope connecting shot to WL were blown out of hole. Spool WL from ground and re-install adapter flange. Removed BOP and RD Key WL and mast. Install WH. Load 5½" csg and establish circ via 95/8" x 5½" annulus after 10 bbls fresh water. Circ total of 30 BFW and fluid was clean. RD Key trucks. MIRU Benterra #4. Made trip with 2¼" OD aluminum tbg to btm at 288'. Poured 5 gal ZONITE, wait and tag at 288'. Poured 5 gal ZONITE, tag at 287' = 1' fill. Poured 5 gal ZONITE, tag at 290' = negative fill. Poured 5 gal ZONITE, tag at 289' = 2' fill. Poured 10 gal ZONITE, tag at 287' = 2' fill. Poured 10 gal ZONITE, tag at 283' = 4' fill. Poured 5 gal Zonite and tag at 281' = 2' fill. Load hole with 3 BFW and SION.

1/17/02

SIP = static. RU Key pump and vac trucks to try to wash ZONITE into cavity shot area. Load at 4 bbls FW and circ 20 bbls at 1 BPM. RD Key trucks. Made trip with SB and tag at 281', no movement of plug. Poured 5 gal ZONITE, wait and tag at 281' = no fill. Poured 5 gal ZONITE, wait and tag @ 276' = 5' fill. Summary: (1) poured total of 55 gals ZONITE = 7.3 cu ft; (2) appeared to fill rathole after 30 gals or 4 cu ft. (2) estimate that 2.3 cu ft ZONITE is within the cavity shot area (calculated fill volume of 95/8" x 5½" x 10' = 4.2 cu ft) and (3) remainder of volume = 1.0 cu ft and it fills 7' inside 5½" csg above cavity shot. SWI. RD Benterra.

1/21/02

MIRU Benterra #4. SIP = Static. Removed WH. Made trip with 2" SB & tag @ 276' – no movement of plug. FL @ 10' FS. Install WH, SWI & RD.

1/28/02

MIRU Benterra #4. SIP = static. Removed WH & made trip w/ 2" SB to top of plug @ 275'. No Movement of plug. FL @ 60' FS. Loaded hole with 1½ BFW. Install WH & RD.

2/4/02

Monitor well – no problems.

2/6/02

Installed well head adapter flange to outside threads of tbg hd. RU Key Pump truck & attempted to pump down 5½" csg – water began coming from ground around wellhead. RD pump truck. MIRU Benterra #4. Made trip with SB and tag top of plug @ 275'. OK. Poured 13 cu ft ZONITE, wait & tag at 180'. Fresh water - 95/8" shoe plug set from 180' – 293' (113') with 20 cu ft ZONITE as of 1:30 PM 2/6/02. Pushed 5½" wiper rubber to 33', poured 4½" cu ft ZONITE and filled csg to surface. Top plug in place as of 1:55 PM 2/6/02. RD Benterra.

2/20/02

Check location - no problems.

3/14/02

Check location - no problems.

3/18/02

Check location; added 1qt water to top of plug inside 5½" csg - no bubbling. Surface pipe open & static.

3/21/02

MIRU Benterra #4. Attempt to load 95/8" x 5½" annulus: gravity fed 15 bbls of fresh water into annulus and it remained on a strong vacuum and did not load. Note: annular volume to surface shoe @ 293' is approx. 15 bbls. RD Benterra.

4/4/02

MIRU Benterra and attempt to load annulus again. Added 10 bbls of fresh water and annulus remained on strong vacuum and would not load. RD Benterra.

9/13/02

RU Key pump truck to 95/8" x 5½" annulus. Pump into annulus w/ fresh water @ 3 BPM & 150 - 170 psi. After pumping 20 BW, had returns from ground about 15' east of well head. SD pump, annulus on slight vac. Wait 15 minutes and resumed pumping at ½ BPM & 150 psi. Pumped add'l 20 BW and never had returns to ground again. ISIP = slight vac. RD Key. Discussed w/ Gary Wink with the NMOCD and let him know that we planned to cement this annulus from the top.

9/16/02

MIRU Schlumberger cementing services. Mixed and pumped 30 sx Class C w/ 2% CaCl₂ and ¼ lb flocele per sk down 95/8" x 5½" annulus (.5 BPM & <100 psi) and had cement returns from ground, approximately 15' east of WH. WOC 30 minutes to allow cement to gel and resumed cementing. Mixed and pumped cement and did not have returns to ground until add'l 30 sx Class C w/ 2% CaCl₂ were pumped - and then the returns were at the wellhead not from the initial spot. Ceased cementing operations and shut-in well. Washed up to vac truck and RD Schlumberger.

9/19/02

Discussed operations with NMOCD District 1 Supervisor Chris Williams and Deputy Inspector Gary Wink and received approval to cut-off well head and complete P&A.

9/24/02

Cut off casings and WH to 4' below GL. Welded cap onto casing and installed dry hole marker with well identification. Dug out and cut off guywire anchors to 4' below GL. Back filled all excavations. Turned over to ChevronTexaco for location cleanup and NMOCD inspection. Final Report.