

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

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

Form C-103
Revised March 25, 1999

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) D
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other TA'd		8. Well No. 11
2. Name of Operator Chevron U.S.A. Inc		9. Pool name or Wildcat Eunice South; 7 Rivers-Queen
3. Address of Operator P. O. Box 1150, Midland, TX 79702		
4. Well Location Unit Letter J : 1980 feet from the South line and 1980 feet from the East line Section 3 Township 22S Range 36E NMPM County LEA		
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 3752' 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 recompilation.

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.

Tag bottom @ 3768'	10 cu ft Zonite	Tagged	
Perf Plug @ 3650' - 3768'	10 cu ft Zonite	Tagged	
B/Salt Plug @ 2916' - 3020'			
Rustler-Cavity Shot Plug 1615' - 1628'	1 cu ft Zonite	Tagged	Cavity Shot 1558' - 1568'
Rustler Plug 1270' - 1615'	105 sx Class C cement	Tagged	
FW/Shoe Cavity Shot Plug @ 441' - 459'	1 cu ft Zonite	Tagged	Cavity Shot 399' - 409'
4 1/2" casing pulled from 409'			
FW/Shoe Plug @ 290' - 441'	38 cu ft Zonite	Tagged	
Top Plug @ 3' - 33'	12 cu ft Zonite		

Set Marker. Chevron to clean location.

Plugging operations began 10/12/01 and were completed 3/26/02. Wellbore diagram attached.

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

SIGNATURE J.K. Ripley / by Cara Shoaff TITLE Regulatory OA
Type or print name J.K. Ripley

DATE 4/22/02
Telephone No. (915) 687-7148

(This space for State use)

APPROVED BY [Signature] TITLE Field Rep DATE 7-30-02
Conditions of approval, if any:

GWW

**Final P&A
Schematic**

Well Name: Harry Leonard (NCT-D) #11
API Number: 30-025-08761
Coordinates: 1980 FNL & 1980 FEL
S - T - R: 3 - 22S - 36E Unit J
County / State: Lea, NM
Drilled: 1959

Operator: Chevron
Field: Eunice S. (Y7RQ)
Date: 4/11/2002
By: CRS/MCB

RKB = 9'

Formation Tops

Anhydrite/Rustler	1558'
T/Salt (Per Paul Kautz)	1655'
B/Salt	2970'
Yates	3127'
7 Rivers	3340'
Queen	3744'

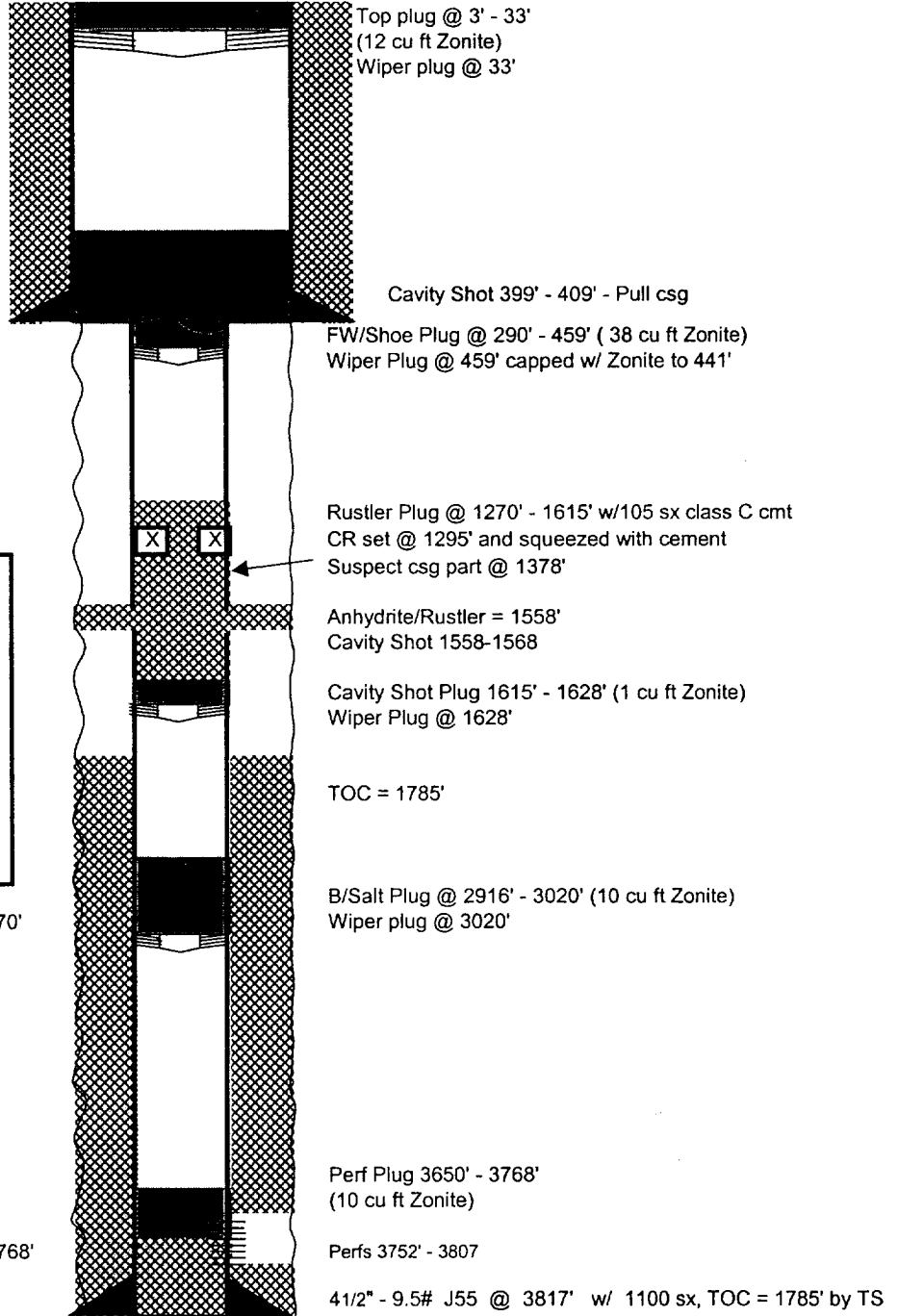
85/8" - 24# J55 @ 409' w/ 325sx, circ

ZONITE Plugs

3 - 30'	Top Plug
290' - 459'	FW/Shoe Plug
1270' - 1615'	Rustler - Cavity Shot (Cement Plug)
1615' - 1628'	Rustler - Cavity Shot
2916 - 3020'	B/Salt Plug
3650 - 3768'	Perf Plug

B/Salt = 2970'

Fill @ 3768'



Daily Operations Summary

OPERATOR Chevron U.S.A. Production Company			DATE See Below	
LEASE & WELL NUMBER Harry Leonard (NCT-D) #11			COUNTY & STATE Lea, New Mexico	
FIELD Eumont			FORMATION Y7RQ	
TD 3818'	PBD 3812'	RKB 9'	PERFS 3752' – 3807'	
SURFACE 85/8" @ 409'	INTERMEDIATE	PRODUCTION 4½" @ 3817'	CIBP DEPTH None	
OPERATOR CHARGE CODE UWPWBA1035ABN			BENTERRA CHARGE CODE NWNMR-00102-019	
<p>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.</p>				
10/12/01				
<p>MIRU Benterra #4. SIP = slight blow. Remove WH & install WCV. RU WL lubricator. WIH w/ 2" SB & tagged btm at 3768' = 44' above PBD & 16' below top perf. FL at 1850'. RU Key pump truck and displaced hole with 76 bbls fresh water; loaded and press at 60 bbls. ND WCV (leaking) and install WH. Pump 16 bbls at 500 – 700 psi and 1½ BPM. ISIP = 550 psi. Bled press to truck and RD. Well on vac in less than 5 minutes. Removed WH, poured +/- 9 cu ft ZONITE. SD for weather (high winds & blowing dust). Installed WH & closed well in for weekend. RD Benterra.</p>				
10/15/01				
<p>MIRU Benterra #4. SIP = strong vac. Remove WH. WIH with SB and tagged plug at 3650'. FL at 3600'. Poured add'l 1 cu ft ZONITE – did not tag. Bottom plug set from 3650' – 3768' (118') w/ 10 cu ft ZONITE as of 8:05 AM 10/15/01. Dumped 50 bbl freshwater into well due to low FL. SWI and RD Benterra.</p>				
10/22/01				
<p>MIRU Benterra Unit #4. SIP = 30 PSI, bled off immediately. Remove WH & WIH w/ SB, tagged at 3650', OK. FL @ 30' FS. POH with SB, install WH & SWI. RD and move off. FL seemed too high and needed to review previous work record and evaluate before setting next plug.</p>				
10/25/01				
<p>MIRU Benterra Unit #4. SIP = static. Remove WH WIH with 3½" FLT and tag plug at 3650'. OK. FL = 50' FS. Pushed 4½" wiper rubber to 3020'. Poured 5 cu ft ZONITE, wait and tag at 2970'. Poured 5 cu ft ZONITE, wait and tag at 2916'. Fluid at surface after this pour. B/Salt plug set from 2916' – 3020' with 10 cu ft ZONITE as of 1:15 PM 10/25/01. RD Benterra and did not set cavity plug this day because of fluid run-over. Will return with fluid containment trailer to set plug.</p>				
10/26/01				
<p>SIP = static. RU Enviro-Vac & removed WH. Push 4½" wiper rubber to 1628', FL @ surface. Poured < 1 cu ft ZONITE, wait & tag @ 1615'. "Cavity Shot" plug now in place. RD Benterra.</p>				

11/19/01

MIRU Key Energy WL, including mast. WIH w/ 24 - 2 1/4" x 4 1/2" cast boosters w/ prima-cord threaded through all boosters - contained in 3" stovepipe. Stovepipe hung on 27' Nylon cord with conductor wire connected to 5/16" electric line. Installed cap to prima cord, WIH & placed cavity shot opposite 1558 - 1568' (9' RKB). Fired shot & pulled WL simultaneously. Had slight oil spray out pack-off (note: 4 1/2" csg outlet tied into Key vac truck when shot was fired). POH w/ WL - rec all of WL & all of nylon cord. RD Key WL. RU Key pump truck to tbg head & vac truck to 85/8" x 4 1/2" annulus. Pump into 4 1/2" csg w/ 3/4 BPM & 500 psi, did not circ out 85/8" x 4 1/2" annulus. Pumped total of 45 bbl freshwater & "locked up". Held 500 psi for 15 minutes w/ no bleed-off. Rel pressure to truck, rec 6 BW & still had 75 psi. SWI & moved trucks to Arnett Ramsey C #8. RU Vac truck to 4 1/2" csg +/- 2 hrs later, SIP = 25 psi. Flowed back 5 BW @ 0 psi. SWI & release vac truck.

11/20/01

MIRU Benterra. SIP = strong vac on 4 1/2" csg, 85/8" x 4 1/2" annulus = static. Poured 1 cu ft ZONITE. WIH with 3 1/2" FLT and tag at 1357' = +/- 200 above cavity shot. Made trip with 2" SB, also tagged at 1357'. WIH with 3 1/2" SB tag several times at 1357', no movement. POH with 3 1/2" SB. RU Key pump truck. Pump 20 bbls freshwater at 1 BPM and 500 psi. Rel press and bled well back to truck. Est rec of 5 BW. Made trip with 3 1/2" SB and still tagged at 1357'. RD Benterra and Key pump truck. NU WH equipment and SWI.

12/3/01

MIRU Key Energy Unit #99. Remove WH and install BOP. WIH with 37/8" bit (junk) on 23/8" tbg, tagged at 1378'. RU stripper rubber, Key pump and vac trucks. Circ at 2 BPM (10 BW to load) and attempt to rotate and wash down - hard btm and bit would torque and jump when weight applied. No progress, circ hole with 40 bbl freshwater at 4 BPM and 350 psi. RD Key trucks. POH with bit. No add'l damage to bit. WIH with 15' x 23/8" mule-shoed tbg jt on 23/8" tbg. Tag at 1378' and took 2-4 pts to pull free. Rotate mule-shoe in an attempt to fall off into hole. Made +/- 1 1/2' but required 10 - 12,000# to pull free. POH. Found end of mule-shoed pinched and some ZONITE on inside of pipe. SDON. Discussed well with E.L. Gonzalez with NMOCD, he approved squeezing 4 1/2" csg from above 1378', suggested using cmt retainer.

12/4/01

Dug and fenced workover pit. Resume unit operations at 10:00 AM. WIH w/ 4 1/2" cmt retainer on 23/8" tbg to 1295'. Ru Schlumberger Services. Cleared tbg and 4 1/2" csg with 20 bbl freshwater, required 10 bbls to load and circ. Set retainer at 1295' and test tbg to 1000 psi, OK. Press 85/8" x 4 1/2" annulus to 500 psi, OK. Pumped down tbg and establish injection rate of .4 BPM at 500 psi. Mix and pump +/- 105 sx Class C with 2% CC. Increased rate to 1.4 BPM at +/- 300 psi when cmt on spot. Displaced tbg with 3 1/2" BW @ 1.4 BPM. "Hesitate" squeeze in 3 stages, max press 425 psi, final press 300 psi. Close retainer, PU 10' and rev out 5 sx cmt. T/Salt-Rustler plug in place as of 3:00 PM 12/4/01. RD Schlumberger. POH and LD 23/8" tbg. Remove BOP, install WH and close well in. RD&PU.

12/10/01

SIP = slight vac on 4 1/2" csg.

12/19/01

SIP = static.

12/26/01

MIRU Benterra #4. SIP = slight blow. Removed WH, made trip with SB to top of plug @ 1270'. (CR set @ 1295' & capped with cement). RD Benterra.

1/9/02

SIP = static.

1/16/02

MIRU Benterra Unit #4. Push 4½" wiper rubber to 459' and cap with ZONITE to 441'. RD Benterra #4. MIRU Key WL and mast. Install well control equip and prep cavity shot, 26 – 2¼" x 4½" long cast boosters = 10'. RU Key vac and pump trucks. Load 4½" casing with 3 BW. WIH with cavity shot on 17' of nylon rope attached to WL. Tag btm 440' (9' RKB) and place shot at 399' – 409'. Fired shot, appeared to have some flow from 4½" casing to vac truck. Surface pipe open – had oil flow and lost ½ BO before closing valve and RU to vac truck. POH and recovered all WL and nylon rope. Attempt to remove WL BOP. Found 4½" csg had "jumped" approximately 3' and was wedged into BOP at WL rams. Elected to leave BOP in place in order to circ hole. RD Key WL and mast. Circ down 4½" csg and out 85/8" x 4½" annulus, gained circ with 10 bbl and pumped total of 45 bbls fresh water. Fluid cleaned up, recovered 1 BO or less. RD trucks, SWI.

1/17/02

Used Key backhoe to pick up WL BOP and was able to remove BOP from wellhead. Pick-up on 4½" csg with chain and front-end loader of backhoe, pipe was free. SD operations until winch truck is available.

1/18/02

Obtain hot work permit from Chevron. RU Key "rig-move" truck. Cut bolts from 85/8" wellhead and cut slots in 4½" csg for cable hooks. Latched onto tbg head and removed. Latched onto 4½" csg and POH with approx 18'. Hammered on 4½" slips to make reset into 85/8" WH and cut 16' 10" of csg, left 11" stub in wellhead. Replace tbg hd onto wellhead. Should now have +/- 18' gap in 4½" csg from approximately 381' to top of shot at 399'. MIRU Benterra #4. Made trip with 18' x 2¼" OD aluminum tbg to btm tag at 393' = 6' above top of cavity shot. Poured 5 gals ZONITE, wait and tag at 393' = no fillup. Poured 5 gal ZONITE, wait & tag at 388' = 5' fillup. Poured 5 gal ZONITE and tag at 381' = 7' fillup. Poured 5 gal ZONITE, tag at 369' = 12' fillup. Volumetrics not consistent with being inside 85/8" csg – fillup is too great for volumes poured. RU Key pump and vac trucks. Pump 25 bbls freshwater at 2 BPM and 200 psi. Re-tag ZONITE at 379', 10' below previous tag. Poured 5 gals ZONITE, tag at 374' = 5' fillup. Key pump 50 BW at 2½" BPM and 250 psi. Retag ZONITE at 374', no movement. Volumetrics still inconclusive. Release trucks, install WH and SDON and weekend.

1/21/02

MIRU Benterra #4. SIP = static. Made trip with 2" SB and tag at 375'. FL @ 50' FS. No movement of plug. Install WH, SWI & RD.

1/28/02

MIRU Benterra #4. SIP: 4½" = vac, 85/8" x 4½" annulus = static. Removed WH and made trip with SB to top of plug @ 376'. No movement of plug. Install WH & RD.

2/4/02

Monitor well – no problems observed.

2/7/02

RU Key pump & vac trucks. Connect to 4½" csg, loaded immediately and press to 400 psi, held. No communication to annulus. Connect to annulus, loaded w/ 5 BFW and pressured to 150 psi, wellhead connections leaked but it appeared that the annulus would hold 150 psi. No communication to 4½". With cavity shot at +/- 400', the total hydrostatic head on any ZONITE seal in the annulus = 323 psi. Release press and RD Key trucks.

2/8/02

Obtained Hot Work Permit from Chevron. Removed tubing head from wellbore and welded on 4' long pull nipple to the stub of 4½" csg.

2/11/02

MIRU Key Energy PU. RU csg tools & latched onto 4½" csg. Removed slips and POH w/ 12 jts of 4½" 9.5# J55 csg. Casing pulled "wet" - found estimated 14' ZONITE plug in bottom jt of casing. Cavity shot area was recovered at bottom of last jt - several "banana peeled" shards of casing remained attached. Top of cavity shot was belled-out over 7" length and some shards were 7' - 8' in length. It appeared that bottom of cavity shot was opposite a coupling as threads could be seen on one of the shards. There was no damage to any of the 4½" casing above the top of the shot. Had to break/cut shards from bottom joint in order to remove Foster tongs from casing. A ZONITE plug (approx 1' long) was lodged in the cavity shot area in between the shards. LD total of 12 jts of "good" casing (357.31') and two cut jts (40.70'). RD&RPU.

2/12/02

MIRU Benterra #4. Made trip with 3½" SB to top of plug @ 390'. Poured 26 cu ft Zonite, wait & tag @ 318'. Poured 10 cu ft ZONITE, wait & tag at 290'. Fresh water - 85/8" shoe plug in place as of 9:25 AM 2/12/02. Pushed 8 5/8" wiper rubber to 33', poured 12 cu ft ZONITE & filled 85/8" csg to surface. Top plug in place as of 11:35 AM 2/12/02. Add water to fill hole. RD Benterra.

2/20/02

Check location - no problems.

3/14/02

Check location - no problems.

3/18/02

Water on top of plug - no bubbling.

3/26/02

Key Energy Services dug out cellar and cut off 85/8" csg and WH to 4' below GL. Welded on plate with ½" brass valve and installed dry hole marker with well identification. Dug out & cut off guywire anchors at 4' below GL. Back filled all excavations. Turned over to ChevronTexaco for location cleanup & OCD inspection. Final Report.