

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

ALL API NO. 30-025-04741
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Arnott Ramsay (NCT-C)
8. Well No. 8
9. Pool name or Wildcat Eumont; Yates-7Rivers-Queen
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 3585' GR

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.)

1. Type of Well:
Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
Chevron U.S.A. Inc

3. Address of Operator
P. O. Box 1150, Midland, TX 79702

4. Well Location
Unit Letter O : 660 feet from the South line and 1980 feet from the East line
Section 21 Township 21S Range 36E NMPM County LEA

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.

Tagged CIBP @ 3692'

Zonite Plugs:

Bottom Plug	3588' - 3692'	13 1/2 cu ft. Zonite	Tagged
B/Salt Plug	2781' - 2890'	14 cu ft. Zonite	Tagged
Rustler Plug	1346' - 1575'	30 cu ft. Zonite	Tagged
Shoe (Zonite Section)	290' - 316'	3 cu ft Zonite	Tagged

Cavity Shot @ 266' - 276'

Cement Plug:

Surf/ Shoe Plug 8' - 266' 245 sx Class C cement Circulated

Surface topped with 1 cu ft Zonite (8' - GL)

Set marker. Chevron to clean location.

Plugging operations began 9/7/01 and were completed on 3/27/02. 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

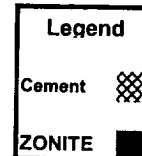
Well Name: Arnott Ramsay (NCT-C) #8
API Number: 30-025-04741
Coordinates: 660 FSL & 1980° FEL
S - T - R: 21 - 21S - 36E Unit O
County / State: Lea, NM
Drilled: 1936

Operator: Chevron
Field: Eumont (Queen)
Date: 4/3/02
By: CRS/MCB

RKB = 6.5'

Formation Tops	
Rustler	1420'
Salt	1510'
Base of Salt	2840'
Yates	3140'
7 Rivers	3280'
Queen	3605'

Surface topped with 1 cu ft Zonite (8' - GL)



Shoe Plug
8' - 266' w/ 245 sx Class C cement, circ

Cavity Shot @ 266' - 276'

3 cu ft Zonite @ 290' - 316'
Wiper Plug @ 316'

TOC @ 550' by calc

Rustler = 1420'
Top of salt = 1510'
75/8" 26.4# @ 1525' w/ 300 sx, circ

Base of salt = 2840'

CIBP @ 3692'
5 1/2" - 17# @ 3777' w/ 275 sx, TOC = 550' by calc

65/8" OH

3880' TD

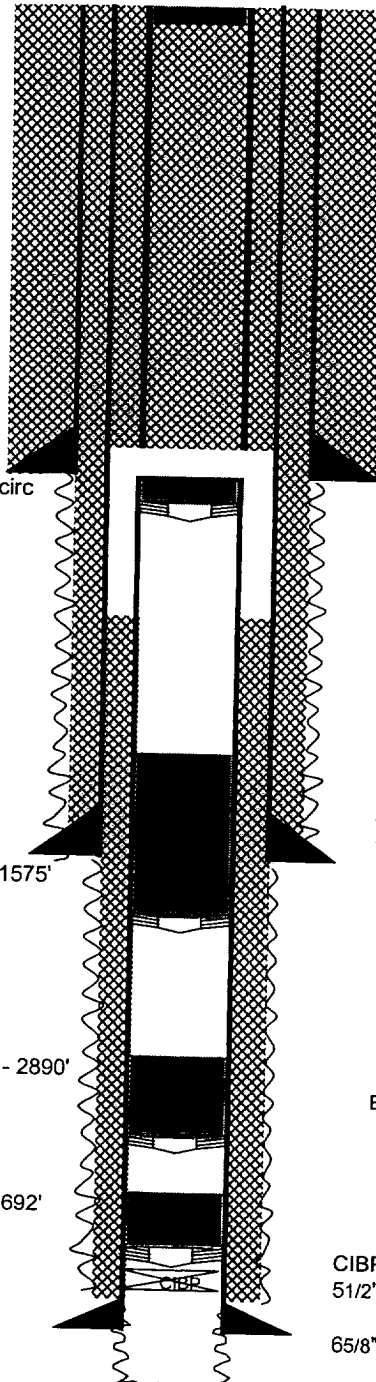
Cement Plug	
266' - 8'	Surf/Shoe
Zonite Plugs	
290' - 316'	Shoe
1346' - 1575'	Rustler
2781' - 2890'	B/Salt
3588' - 3692'	Bottom

103/4" - 32# @ 276' w/ 250 sx, circ

Rustler Plug @ 1346' - 1575'
(30 cu ft Zonite)
Wiper plug @ 1575'

Base Salt plug @ 2781' - 2890'
(14 cu ft Zonite)
Wiper Plug @ 2890'

Bottom plug @ 3588' - 3692'
(13.5 cu ft Zonite)
Wiper Plug @ 3692'



OPERATOR Chevron U.S.A. Production Company			DATE See Below	
LEASE & WELL NUMBER Arnott Ramsay C #8			COUNTY & STATE Lea, New Mexico	
FIELD Eumont			FORMATION Queen	
TD 3880'	PBD 3635'	RKB 6.5'	PERFS OH 3777-3880 TD	
SURFACE 10 3/4"@276'	INTERMEDIATE 7 5/8"@1525'	PRODUCTION 51/2" @ 3777'	CIBP DEPTH 3700'	
OPERATOR CHARGE CODE WBS No. UWPWBA1004ABN			BENTERRA CHARGE CODE NWNMR-00101-001	
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.				
9/7/01				
MI Benterra Unit #4. Held pre-job safety meeting. Casing valve had been left open and there was no pressure on well. Removed WH equip and installed well control valve. Well standing full w/ water. WIH w/ 3 1/2" sinker bar, stopped at 265' and worked to 280'. Bar had signs of paraffin. POH and ran 2" sinker bar, unable to work past 280'. POH w/ WL, removed well control valve and installed WH equip. Left well SI. Took Unit #4 to yard for reloading ZONITE and SD for weekend. <u>E.L. Gonzalez w/ NMOCD was contacted and made aware of problem.</u> (Note: discussed problem with Nathan Mouser w/ Chevron and he said he would probably try to cut paraffin with a swab unit.) Chevron cleaned out wellbore (circ out polymer squeeze material from previous workover) & circ w/ freshwater.				
10/3/01				
MIRU Benterra Unit #4. No press on well. Remove WH & WIH w/ SB & tagged btm @ 3692'. Started in hole w/ 5 1/2" wiper rubber – reviewed well files w/ Chevron & determined that CIBP was probably never capped w/ cement – decided to push WR to CIBP & cap w/ 100' of ZONITE. Notified E.L. Gonzalez w/ NMOCD of procedure change. Finish pushing WR to 3692', FL @ +/- 167'. Place 14 cu ft ZONITE & tagged @ 3588'. Btm plug set from 3588' – 3692' = 104'. Pushed 5 1/2" wiper rubber to 2890' for B/salt plug. Close well in & SDON.				
10/4/01				
SIP = static. Poured 9 cu ft. ZONITE, wait & tag @ 2821'. Poured 5 cu ft ZONITE wait & tag @ 2781'. B/salt plug set 2781' – 2890' w/ 14 cu ft ZONITE as of 9:45 a.m. 10/4/01. Pushed 5 1/2" wiper rubber to 1575'. Poured 22 cu ft ZONITE, wait & tag @ 1409'. Pour 8 cu ft ZONITE, wait & tag @ 1346'. T/Salt – Rustler plug set 1346' – 1575' w/ 30 cu ft ZONITE as of 11:50 a.m. 10/4/01. Pushed 5 1/2" wiper plug to 316'. Poured 3 cu ft ZONITE, wait & tag @ 290'. Well prepped for Cavity Shot from 266' – 276'. RD Benterra				

11/19/01

MIRU Key Energy WL, including mast. Hole full of water. RU well control equip. & cavity shot consisting of 24 – 2" x 4 1/2" cast boosters w/ prima-cord threaded through all boosters. No stovepipe used on this charge – duct taped together. Charge run on 27' of nylon cord w/ conductor wire connected to 5/16" WL. WIH w/ CS & positioned opposite 266 – 276' (6.5' RKB). Key vac truck connected to 5 1/2" csg outlet. Fired shot – "mini sonic boom", slight ground shake, strong blow of water sprayed (+/- 40') out 10 3/4" x 7 5/8" riser, 30-45 seconds, some indication of slight flow out 7 5/8" x 5 1/2" riser. Performed 'gun & run' when shot fired. POH & rec all of WL & nylon rope. RD Key WL. RU Key PT to 5 1/2" tbg head. Pumped 4 bbl freshwater & loaded. Had circ out both annulus risers – better flow out 10 3/4" x 7 5/8" annulus. Closed in 7 5/8" x 5 1/2" annulus & connected vac truck to 10 3/4" x 7 5/8" annulus. Pump 25 bbl FW, twice capacity. Closed in 7 5/8" x 5 1/2" annulus & hooked VT to 7 5/8" x 5 1/2" annulus. Pumped 25 bbl FW via 5 1/2" csg. All water pumped @ circ press. Closed wellbore in & RD Key trucks.

11/20/01

MIRU Key Energy Unit #99. WIH w/ 15' mule-shoe tbg jt on 2 3/8" tbg & tag @ 264', unable to work deeper. RU DHV International & Key pump & vac trucks. Pumped down 2 3/8" tbg & video taped cavity shot area. Pipe was clearly damaged @ 264' – could probably get ZONITE beyond 5 1/2" csg wall but would not be able to determine effective length of any such plug since camera stopped @ 264'. Review of area above 264' found csg to be parted and 'egged' @ +/- 258'. 5 1/2" csg appeared to be in good condition @ 252' (as shallow as we could pull camera w/ out laying jt of tbg down) although a split is visible @ +/- 255'. Rotated tbg & fell +/- 3'. Reviewed area w/ camera, appeared to be in formation. Overall, camera provided inconclusive evaluation of cavity shot. However, ability to circ out both 10 3/4" x 7 5/8" & 5 1/2" annuli suggests that cementing may be most appropriate plug. Will discuss w/ NMOCD. RD DHV & SDON.

11/21/01

POH & LD tbg. RD & release PU.

12/07/01

Discussed operations w/ Chris Williams & Paul Kautz w/ NMOCD in Hobbs, NM during an update meeting regarding the P&A pilot progress. Informed them of the communication from both 10 3/4" x 7 5/8" & 7 5/8" x 5 1/2" annuli. Requested & received permission to cement both annuli and leave 5 1/2" csg filled with cement, approved by Chris Williams.

12/8/01

MIRU Key Energy bulk truck, cmt pump truck & vac truck w/ 130 bbl freshwater. Pumped into 5 1/2" csg, loaded w/ 8 bbl FW & established circ out both 10 3/4" x 7 5/8" & 7 5/8" x 5 1/2" annuli. Pumped add'l 10 BW & began cementing. Mixed & pumped +/- 245 sx Class C neat @ 14.8 ppg. Had cmt returns after +/- 80 sx but not quality cement. Mix & pump +/-165 sx (total of 245 sx pumped). Circ 13.8 – 14.2 ppg cement out both annuli, closed-in annuli. Pump 1 bbl FW to clear lines, pump & 5 1/2" wellhead, max press 250 psi. Closed-in 5 1/2" csg w/ 200 psi. Cement in place @ 1:30 p.m. 12/8/01. RD & R all Key equip.

12/10/01

SIP = static. TOC inside 5 1/2" csg = 8'. Will fill with ZONITE.

12/11/01

MIRU Benterra #4. Filled csg with ZONITE (+/- 1 ft³). Install WH. RD Benterra.

12/19/01

SIP = static. Fluid, ZONITE @ surface. No pressure on annuli risers.

1/9/02

SIP = static

1/28/02

SIP = static. Removed WH, water at surface, no bubbling.

2/20/02

Check location; no problems.

3/14/02

Check location; no problems.

3/18/02

Add water to top of ZONITE cap, no bubbling. Surface & intermediate risers are cemented.

3/27/02

Dug out around wellhead with backhoe and cut off casings and wellhead at 4' below GL. Installed WH cap with ½" brass monitoring valve and dry hole marker with location identification. Back-filled cellar, cut-off guy wire anchors below GL. Well P&A'd 3-27-02. Notified ChevronTexaco that location was ready for cleanup. FINAL REPORT.