

N.M. Oil Cons. Div-Dist. 2  
UNITED STATES 1301 W. Grand Avenue  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
Artesia, NM 88210

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well **RECEIVED**  
☒ Oil Well ☐ Gas Well ☐ Other  
2. Name of Operator **MAY 17 2005**  
McCabe Energy, Inc. **QUAD-ARTESIA**  
3a. Address 3b. Phone No. (include area code)  
P. O. Box 3816, Midland, TX 79702 432-682-9653  
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1910' FNL & 1838' FEL, Sec. 20, T24S, R28E, NMPM

5. Lease Serial No.  
NM92757  
6. If Indian, Allottee or Tribe Name  
7. If Unit or CA/Agreement, Name and/or No.  
8. Well Name and No.  
Willow Lake Federal "20" #1  
9. API Well No.  
30-015-33209  
10. Field and Pool, or Exploratory Area  
Willow Lake  
11. County or Parish, State  
Eddy County, New Mexico

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Upper Brushy Canyon zone from 4744-74' was perforated, acidized and fraced. (Procedure attached) Zone is being tested and resulting production will be added to previous production from lower Brushy Canyon (5992'-6225')

ACCEPTED FOR RECORD

MAY 13 2005

LES BABYAK  
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Gregory L. Hair

Title Executive Vice President

Signature

Date 5/9/2005

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

4/28/05 RU Pool, POOH with rods & pump. ND well head, NU BOP, unseat TAC & POOH with 2 7/8" tubing. RU Precision & perf as follows: 4744', 4754'-67', 4771'-74' 2spf. RD Precision, SI&SDFD.

4/29/05 PU 5 1/2" RBP & PKR. RIH with tools to 4700', leave swinging & SDFWE.

5/2/05 Continue in the hole with tools to 5030'. Set RBP & test to 1000 psi (held ok). Pull PKR to 4774', RU KEY EPPS & spot 100 gal 7 1/2 % NEFE HCl across interval. Pull PKR to 4652', set & put spot acid away (breakdown press = 1250 psi). Acidize perfs with 1150 gal 7 1/2% NEFE with 60 balls (good ball action - no ball out). Max rate = 3.6 bpm, Avg rate = 2.7 bpm, Max press = 1280 psi, Avg press = 1055 psi. ISIP = 750 psi, 5 min = 695 psi, 10 min = 670 psi, 15 min = 655 psi. Open well to tank, flwd down & RU swab. Made 5 runs with swab & swabbed dry. Wait 1 hr, made one more run & recovered 500' fluid with slight show of gas. Recovered 40 bbls LW. LWTR = 20 bbls.

5/3/05 SITP = 0 psi. Made one run with swab & found FL @ 2600', pulled from 4100' & recovered 1500' fluid with 500' free oil on top of run. RD swab, unseat PKR & POOH. ND BOP, NU frac valve & KEYEPPS to frac. Frac with 22,512 gals AmBorMax 1025 carrying 36,500# 20/40 Brady & 13,500# 20/40 Super LC. Max rate = 15.3 bpm, Avg rate = 12.7, Max press = 1180 psi, Avg press = 964 psi. ISIP = 960 psi, 5 min = 949 psi, 10 min = 820 psi, 15 min = 780 psi. RD KEYEPPS & RU Flow Test. Leave well shut in 3 hrs & open (3:00 PM) to frac tank on 18/64"choke (640 psi). LWTR = 649 bbls

5/4/05 FTP = 3 psi. Well made 318 bbls LW over night (no show oil or gas). Prep to run tubing & swab. (early report) ). ND frac valve, NU BOP & RIH with tubing as follows:

1-2 7/8" BPMA	31.72'
1-2 7/8" Perforated sub	4.00'
1-2 7/8" Seating nipple	1.10'
4-2 7/8", J-55, 8rd tubing	126.88'
1-2 7/8" X 5 1/2" TAC	2.50'
<u>144-2 7/8", J-55, 8rd tubing</u>	<u>4567.68'</u>
148 Total tubing	4733.88'
KB	16.00'
Set @	4749.88'

NOTE: Ran tubing to 4876' to check for fill & found none.  
ND BOP, set TAC (12,000# tension) & NU well head. RU swab & made 25 runs & recovered 215bbls LW. Beg FL = surface & ending FL = 3300'. Oil cut last 5 runs = 5 - 10%. LWTR = 136 bbls. SDFD.

5/5/05 SITP = 110 psi, SICP = 20 psi. Bleed well down (all gas) & made one swab run. FL = 1200', pulled from 2700' & recovered 60% oil. RD swab & ran rods as follows:

1-2 1/2" X 1 1/2" X 20' - 5' pump with 8' gas anchor  
1-3/4" X 2' Rod sub  
43-3/4" Rods  
74-7/8" Rods  
69-1" Rods  
1-1" X 4' Rod sub  
1-1 1/4" X 22' Polish rod with 1 1/2" X 12' liner  
Space out pump & hang on pumping unit. Well pumped up in 30 min, test tubing to 500 psi (5 strokes - held ok). Rig down & leave well pumping on hand.