

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO. 30-025-26105
Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
State Oil & Gas Lease No. B-229
Lease Name or Unit Agreement Name Arnott Ramsay (NCT-B)
Well No. 5
Pool name or Wildcat Langlie Mattix; 7R-Queen Grayburg
Well Location Unit Letter <u>O</u> : <u>330</u> Feet From The <u>South</u> Line and <u>1650</u> Feet From The <u>East</u> Line 32 Section 25S Township 37E Range NMPM Lea County
Elevation (Show whether DF, RKB, RT, GR, etc.) 2995' RKB (2984' GL)

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.)

Type of Well:
OIL WELL ☒ GAS WELL ☐ OTHER

Name of Operator
Doyle Hartman

Address of Operator
P.O. Box 10426, Midland, Tx 79702

Well Location
Unit Letter O : 330 Feet From The South Line and 1650 Feet From The East Line

32 Section 25S Township 37E Range NMPM Lea County

Elevation (Show whether DF, RKB, RT, GR, etc.)
2995' RKB (2984' GL)

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 ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☒ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ANBANDONMENT ☐
CASING TEST AND CEMENT JOB ☒
OTHER: ☐

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 Details of Completed Operations and Proposed Plugging Procedure, see page 2 of 4, 3 of 4 and 4 of 4 attached hereto, and made a part hereof.

THE COMMISSION MUST BE NOTIFIED 24
HOURS PRIOR TO THE BEGINNING OF
PLUGGING OPERATIONS FOR THE C-103
TO BE APPROVED.

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

SIGNATURE Steve Hartman TITLE Engineer DATE 11-02-01

TYPE OR PRINT NAME Steve Hartman TELEPHONE NO. 915-684-4011

(This space for State Use)

APPROVED BY GARY W. WINK TITLE NATURAL SCIENCE MANAGER DATE NOV 06 2001
CONDITIONS OF APPROVAL, IF ANY: NATURAL SCIENCE MANAGER

Details of Completed Operations and Proposed Plugging Procedure

On 8-30-01, moved in and rigged up well service unit. Pulled and laid down old 2 3/8" O.D. tubing and old 3/4" rod string.

Ran new 2 3/8" O.D., 4.7 lb/ft, J-55, EUE tubing, 4 1/2" Model "C" packer, and 4 1/2" Model "C" RBP. Set 4 1/2" Model "C" RBP, at 3220'. Tested 4 1/2" Model "C" RBP, to 1000 psi. Loaded wellbore with water. Pulled 4 1/2" Model "C" packer.

Rigged up Schlumberger. Logged well, with DS-CNL-GR-CCL log (dated 8/31/01) and VDCBL-GR-CCL log (dated 8/31/01). Rigged down Schlumberger. Pulled 4 1/2" Model "C" RBP. Shut down for weekend.

Rigged up wireline truck. Set Halliburton 4 1/2" EZ-Drill retainer, at 3228'. Ran 2 3/8" O.D. tubing and stinger tool. Squeeze cemented perfs, from 3278' to 3420', with 500 sx of API Class "C" Neat cement, followed by 200 sx of API Class "C" cement, containing 2% CaCl₂, 3 lbs/sx Gilsonite, and 0.25 lb/sx Flocele. Final displacement rate was 1.0 BPM, at 2760 psi. ISIP = 2070 psi.

Ran 4 1/2" Model "C" packer and 4 1/2" Model "C" RBP. Set 4 1/2" Model "C" RBP, at 1258'. Located hole, in 4 1/2" O.D. casing, at 980'. Pulled 4 1/2" Model "C" packer.

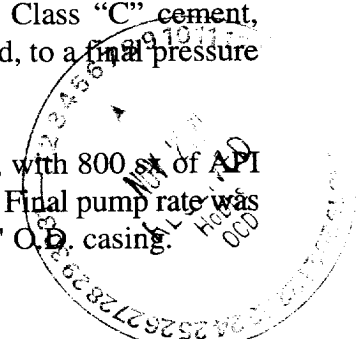
Dumped 4 sx (41') of frac sand down 4 1/2" O.D. casing, to cover 4 1/2" Model "C" RBP, at 1258'. Ran and set 4 1/2" Model "C" packer, at 771'. Squeeze cemented casing hole, at 980', with 500 sx of API Class "C" Neat cement, followed by 200 sx of API Class "C" cement, containing 2% CaCl₂, 3 lb/sx Gilsonite, and 0.25 lb/sx Flocele. Final displacement rate was 1.0 BPM, at 720 psi. ISIP = 720 psi.

Cleared casing hole, by over displacing, with an additional 35 bbls of water. Ordered more cement.

Squeeze cemented casing hole, at 980', with an additional 800 sx of API Class "C" cement, containing 2% CaCl₂, 3 lb/sx Gilsonite, and 0.25 lb/sx Flocele. Stage squeezed, to a final pressure of 1440 psi. Pressure held okay.

Tied pump truck to 8 5/8" O.D. casing. Cemented down 8 5/8" O.D. casing, with 800 sx of API Class "C" cement, containing 3% CaCl₂, 3 lb/sx Gilsonite, 0.25 lbs/sx Flocele. Final pump rate was 1.0 BPM, at 1780 psi. ISIP = 1565 psi. 5-min SIP = 1510 psi. Shut in 8 5/8" O.D. casing.

Pulled 2 3/8" O.D. tubing and 4 1/2" Model "C" packer.



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NMOCD Form C-103 dated 11-02-01
Doyle Hartman
Arnott Ramsay "NCT-B" No. 5
O-32-25S-37E
API No. 30-025-26105

Ran bottom-hole drilling assembly. Drilled cement, from 776' to 989'. Circulated hole clean. Pressure tested 4 1/2" O.D. casing, from 0' to 1217', to 2500 psi. Pressure held okay. Pulled bottom-hole drilling assembly.

Ran 2 3/8" O.D. tubing and retrieving head. Circulated remaining sand off of 4 1/2" Model "C" RBP. Pulled and laid down 4 1/2" Model "C" RBP.

Ran bottom-hole drilling assembly. Tagged retainer at 3229'. Drilled retainer, and 44' of cement, to 3275'.

Perforated 4 1/2" O.D. casing, from 2687' to 3205', with (33) 0.38" x 19" holes.

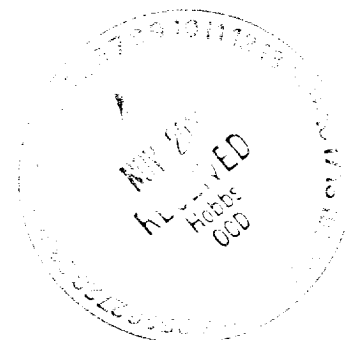
2687	2713	2744	2779	2908	3103	3182
2690	2719	2752	2782	2926	3137	3201
2698	2729	2755	2785	2929	3149	3205
2705	2734	2768	2898	2939	3176	
2709	2737	2773	2902	2945	3179	

Acidized perms, from 2687' to 3205', in two stages, with a total of 6300 gal of 15% MCA acid. Balled out, on both stages.

Ran 2 3/8" O.D. tubing and new 3/4" Axelson S-87 API Class "KD" rod string. Commenced pumping and cleaning up well, at 11:30 a.m., CDT, 9-12-01, at 8.6 spm x 64" x 1 1/4".

Performed well test, as follows:

Date:		10-3-01
Gas Rate:		TSTM
Water Rate:		27.2 BPD
Orifice Plate Size:		0.125"
CP	=	0.1 psi
OP	=	0.1 psi



Pulled rods and tubing. Set Halliburton 4 1/2" EZ-Drill retainer, at 3090'.

Ran 2 3/8" O.D. tubing and cementing stinger. Stung into retainer. Squeeze cemented perms, from 3103' to 3205' (8 holes), with 500 sx of API Class "C" Neat cement, followed by 200 sx of API Class "C" cement, containing 2% CaCl₂, 3 lb/sx Gilsonite, and 0.25 lb/sx Flocele. Final displacement rate was 1.0 BPM, at 1295 psi. Pulled out of retainer. Pulled 2 3/8" O.D. tubing.

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NMOCD Form C-103 dated 11-02-01

Doyle Hartman

Arnott Ramsay "NCT-B" No. 5

O-32-25S-37E

API No. 30-025-26105

Ran 4 1/2" Model "C" packer. Performed second acid ballout job, of remaining perfs, from 2687' to 2945' (25 holes), utilizing 5000 gal of 15% MCA acid. Ran 2 3/8" O.D. tubing and 3/4" rod string. Resumed testing and cleaning up perfs, from 2687' to 2945', at 5:30 p.m., CDT, 10-8-01, at 8.6 spm x 64" x 1 1/4".

Performed well test, as follows:

Date:	10-28-01
Gas Rate:	TSTM
Water Rate:	0
Orifice Plate Size:	0.125"
CP =	0.1 psi
OP =	0.1 psi

We now propose to plug and abandon well, as follows:

1. Pull and lay down rods and tubing.
2. Install cementing head.
3. Perform low-rate low-wellhead-pressure squeeze job, down 4 1/2" O.D. casing, with 250 sx of API Class "C" cement, containing 3% CaCl₂, 3 lbs/sx Gilsonite, 0.25 lbs/sx Flocele, followed by 250 sx of API Class "C" cement, containing 2% CaCl₂, 3lb/sx Gilsonite, 0.25 lb/sx Flocele (casing capacity = 203 sx).
4. Leave 4 1/2" casing full of cement, from 0' to 2945'; i.e., will not displace with water.
5. Install dry-hole marker.
6. Clean location.

