

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  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	WELL API NO. 30-045-20955
2. Name of Operator Merrion Oil & Gas Corporation (014634)	5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
3. Address of Operator 610 Reilly Avenue, Farmington, NM 87401-2634	6. State Oil & Gas Lease No. NM N5-277210
4. Well Location Unit Letter <u>K</u> : <u>1980</u> Feet From The <u>south</u> Line and <u>1980</u> Feet From The <u>west</u> Line Section <u>20</u> Township <u>21N</u> Range <u>08W</u> NMPM <u>San Juan</u> County _____	7. Lease Name or Unit Agreement Name SANTA FE 20
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 6560' GL	8. Well No. 007 (7840)
	9. Pool name or Wildcat Snake Eyes Dakota 'D' (85520)

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 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.

Merrion Oil & Gas Corporation plans to Plug & Abandon the above referenced well as per the attached procedure.

RECEIVED  
MAY 21 1998  
OIL CON. DIV.  
DIST. 3

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

SIGNATURE Connie S. Dinning TITLE Consulting Engineer DATE 5/20/97  
TYPE OR PRINT NAME Connie S. Dinning

TELEPHONE NO. 505.327.9801

(This space for State Use)

APPROVED BY Johnny Robinson DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE MAY 21 1998

CONDITIONS OF APPROVAL, IF ANY: \* At A prior to 9-1-98  
\* minimum 150' duc

## PLUG AND ABANDONMENT PROCEDURE

4-28-98

### **Santa Fe 20 #7**

Snakes Eyes Dakota

1980' FSL and 1980' FWL / SW, Sec. 20, T21N, R8W  
San Juan County, New Mexico

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

1. Install and test rig anchors. Prepare blow pit. Comply with all NMOCD, BLM and Merrion safety rules and regulations.
2. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line to blow well down; kill with water as necessary. ND wellhead and NU BOP and stripping head; test BOP.
3. POH and LD rods with pump. POH and tally 2-7/8" tubing (145 joints 6.5# at 4566'); visually inspect the tubing. If necessary LD tubing and PU 2" workstring. Round-trip 5-1/2" gauge ring to 4500', may hit tight spot in casing at 1940'.
4. **Plug #1 (Dakota perforations and top, 4500' - 4325')**: RIH with 5-1/2" cement retainer and set at 4500'. Load casing with water and circulate clean. Pressure test casing to 500#. Mix 26 sxs Class B cement and spot a balanced plug inside casing above the CR to isolate Dakota perforations and cover top. If casing does not test, then spot or tag subsequent plug as appropriate. POH to 3500'.
- \* 5. **Plug #2 (Gallup top, 3500' - 3400')**: Mix 17 sxs Class B cement and spot balanced plug inside casing over Gallup top. POH and LD tubing.
- \* 6. **Plug #3 (Mesaverde top, 610' - 510')**: Perforate 3 HSC squeeze holes at 610'. Pick up 5-1/2" cement retainer and RIH; set at 560'. Establish rate into perforations. Mix and pump 47 sxs Class B cement, squeeze 30 sxs outside casing and leave 17 sxs inside to cover Mesaverde top. POH and LD tubing.
7. **Plug #4 (8-5/8" Casing shoe at 80')**: Perforate 3 HSC squeeze holes at 130'. Establish circulation out bradenhead valve. Mix and pump approximately 34 sxs Class B cement down 5-1/2" casing, circulate good cement to surface. Shut in well and WOC.
8. ND BOP and cut off well head below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per stipulations.

# Santa Fe 20 #7

Current

Snake Eyes Dakota "D" Gas

SW, Section 20, T-21-N, R-8-W, San Juan County, NM

Today's Date: 4/28/98

Spud: 10/30/71

Completed: 12/21/71

Re-Completion: 8/73

P&A well 8/73

Re-Enter: 12/90

Re-Completion: 2/91

Elevation: 6560' GL

6572' KB

Mesaverde @ 560'

Perf @ 678' and squeeze  
55 sxs Class "B" (1991)

Perf @ 960' and squeeze  
30 sxs Class "G" w/2% (1991)

Squeeze csg holes 1629'-2002'  
28 sxs Class "B" (1991)

Squeeze csg holes 1911'-1942'  
225 sxs Class "G" (1991)

Squeeze csg holes 3052'-84'  
25 sxs Class "G" (1991)

Gallup @ 3450'

Dakota @ 4375'

Entrada @ 5550' (appx)

12-1/4" Hole

7-7/8" Hole

4-3/4" Hole

8-5/8" 24# Csg set @ 80'  
Cmt w/40 sxs (Circulated to Surface)

## WORKOVER HISTORY

Oct '71: Complete Dakota zone.

Aug '73: Entrada test; deepen well to 5629'; set 6 cement plugs and cut 5-1/2" off casing at 955'; well P&A.

Dec '90: Re-enter well, mill 5-1/2" casing, set casing patch and 21 joints; drill out cement plugs to 4630'; well started flowing, isolate flow from below DK perfs, casing leaks also isolated at bottom and 1900'; perforate DK, test lower DK, flowing solid water, sqz casing leaks between 3084' and 1911', drill out to 4574' and push BP to bottom, swab and flow test, set BP 4618, re-perf old DK perfs 4555' - 4560', land tbq.

Sept '91: Various squeezes, set CR at 4576', drill out cmt to top of CR, perf DK 4555' - 4560'.

Nov '91: Ran rods, pump and pump jack.

TOC @ 3098' (Calc, 75%)

2-7/8" EUE tubing @ 4566'  
(145 jts 6.5# with rods and pump)

Dakota Perforations:  
4555' - 4584' (1991)

Set CR @ 4576' and pump 35 sxs "B" (1991)

Dakota Perforations:  
4605' - 4608' (1971)

Set CIBP @ 4618' (1991)

Set CR @ 4620' (1991)

5-1/2" 15.5#, Casing set @ 4630'  
Cmt w/ 300 sxs

Original P&A (1973)  
Cmt 5629' - 5507' with 15 sxs  
Cmt 4650' - 4630' with 25 sxs

PBTD 4576'

TD 5629'

# Santa Fe 20 #7

## Proposed P&A

Snake Eyes Dakota "D" Gas

SW, Section 20, T-21-N, R-8-W, San Juan County, NM

Today's Date: 4/28/98  
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Completed: 12/21/71  
Re-Completion: 8/73  
P&A well 8/73  
Re-Enter: 12/90  
Re-Completion: 2/91  
Elevation: 6560' GL  
6572' KB

Mesaverde @ 560'

Perf @ 678' and squeeze  
55 sxs Class "B" (1991)

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30 sxs Class "G" w/2% (1991)

Squeeze csg holes 1629'-2002'  
28 sxs Class "B" (1991)

Squeeze csg holes 1911'-1942'  
225 sxs Class "G" (1991)

Squeeze csg holes 3052'-84'  
25 sxs Class "G" (1991)

Gallup @ 3450'

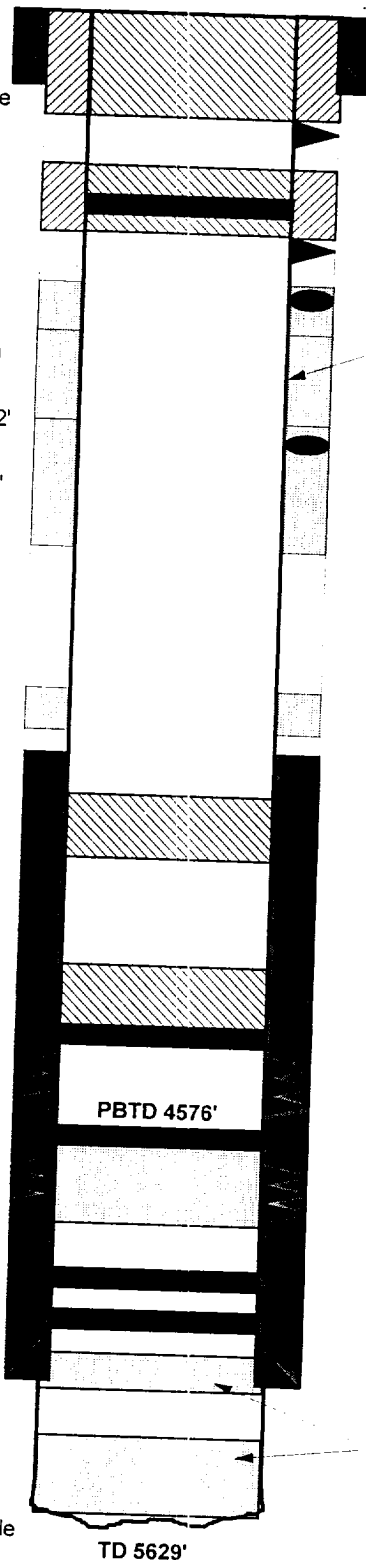
Dakota @ 4375'

Entrada @ 5550' (appx)

12-1/4" Hole

7-7/8" Hole

4-3/4" Hole



8-5/8" 24# Csg set @ 80'  
Cmt w/40 sxs (Circulated to Surface)

Perforate @ 130'

CR @ 560'

Perforate @ 610'

Csg Patch @ 955'

TOC @ 3098' (Calc, 75%)

**Plug #4** 130' - Surface  
Cmt with 34 sxs Class B

**Plug #3** 610' - 510'  
Cmt with 47 sxs Class B,  
30 sxs outside casing  
and 17 sxs inside.

**Plug #2** 3500' - 3400'  
Cmt with 17 sxs Class B

**Plug #1** 4500' - 4325'  
Cmt with 26 sxs Class B

**Cement Rt @ 4500'**

Dakota Perforations:  
4555' - 4584' (1991)

Set CR @ 4576' and pump 35 sxs "B" (1991)

Dakota Perforations:  
4605' - 4608' (1971)

Set CIBP @ 4618' (1991)

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TD 5629'