

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

CONFIDENTIAL Form C-103
Revised 1-1-89

DISTRICT I
O. Box 1980, Hobbs, NM 88240
DISTRICT II
O. Drawer DD, Artesia, NM 88210
DISTRICT III
00 Rio Brazos Rd., Aztec, NM 87410

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

WELL API NO. 30-045-29750
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B 11242-47
7. Lease Name or Unit Agreement Name WF State 16
8. Well No. 1
9. Pool name or Wildcat Harper Hill FR Sand PC 71860 Basin Fruitland Coal Ext 71629

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	Name of Operator RICHARDSON OPERATING COMPANY 019219
Address of Operator c/o Walsh Engr. & Prod. Corp. 415 E. Main Farmington, N.M. 87402	10. Elevation (Show whether DF, RKB, RT, GR, etc.) 5617' GL
Well Location Unit Letter M : 930' Feet From The South Line and 1115' Feet From The West Line	Section 16 Township 30N Range 14W NMPM San Juan County

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

FORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
ORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
OR ALTER CASING <input type="checkbox"/>	
R: _____	<input type="checkbox"/>

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: See Attached <input checked="" type="checkbox"/>	

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.

WELL COMPLETED AS PER ATTACHED TREATMENT REPORTS

RECEIVED
LWL - 7 1999
OIL CON. DIV.
DIST. 3

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

SIGNED BY John C. Thompson TITLE Agent DATE 7-2-99

PRINT NAME _____ TELEPHONE NO. _____

for State Use)
ORIGINAL SIGNED BY ERNIE BUSCH DEPUTY OIL & GAS INSPECTOR, DIST. #3
DATE 8-2-99

NS OF APPROVAL, IF ANY:

FRACTURE TREATMENT REPORT

Operator: Richardson Operating Well Name: WF State 16-1
Date: March 8, 1999
Field: Fruitland Coal Location: 16/30N14W County: San Juan State: NM
Stimulation Company: Dowell Supervisor: John Thompson

Stage #: 2-Feb

Sand on location (design): 40,000# Weight ticket: 42,140# Size/type: 20/40 Arizona

Fluid on location : No. of Tanks: 1 Strap: 18 Amount: 360 Usable: 320

Depth: 1152' - 1162' Total Holes: 30 PBTD: RBP @ 1167'
Shots per foot: 3 spf EHD: 0.30"

Acid: n/a
Balls: n/a
Pressure: 540# Rate: 3.0 bpm (saw 2nd break @ 1470# during pad)

ATP: 1,141# AIR: 20 bpm
MTP: 1,671# MIR: 24 bpm

ISIP: 1,100#	pad 1470#
5 min: 774#	1 ppg 1630# - 1405#
10 min: 760#	2 ppg 1401# - 1332#
15 min: 751#	3 ppg 1328# - 1320#
	4 ppg 1305#

Job Complete at: 9:00 hrs. Date: 3/6/99 Start flow back: 10:00 hrs. 3/6/99
Total Fluid Pumped: 208
Total Sand Pumped: 40,825# Total Sand on Formation: 39,691#
Total Nitrogen Pumped: 189,300 scf

Notes:

Additives: Foamer - 5 gal/1000 gal
Breakers - J134 Enzyme breaker (total of 1#/1000 gal)

Frac tank heated to 80 degrees
Cut 3 ppg stage short & ran 4 ppg stage long

Signature 

FRACTURE TREATMENT REPORT

Operator: Richardson Operating Well Name: WF State 16-1
Date: February 28, 1999
Field: Pictured Cliffs Location: 18/30N/14W County: San Juan State: NM
Stimulation Company: Dowell Supervisor: John Thompson

Stage #: 1/2

Sand on location (design): 40,000# Weight ticket: 40,880# Size/type: 16/30 Arizona
Fluid on location : No. of Tanks: 1 Strap: 15.5 Amount: 310 Usable: 270

Perforations:
Depth: 1170' - 1186' Total Holes: 48
Shots per foot: 3 spf EHD: 0.30"

Breakdown:
Acid: n/a
Balls: n/a
Pressure: 2,200# Rate: 4.0 bpm

Stimulation:
ATP: 835# AIR: 30 bpm
MTP: 2,200# MIR: 30 bpm

	pad	806#	
ISIP: 742#	1 ppg	824#	22 cps @ 70 degrees
5 min: 719#	2 ppg	833#	break @ 1.5 hrs
10 min: 700#	3 ppg	833#	
15 min: 687#	4 ppg	851#	

Job Complete at: 10:35 hrs. Date: 2/28/99 Start flow back: 11:30 hrs. 2/28/99
Total Fluid Pumped: 184
Total Sand Pumped: 39,235# Total Sand on Formation: 39,235#
Total Nitrogen Pumped: 104,900 scf

Notes:

Additives: Foamer - 5 gal/1000 gal
Breakers - J134 Enzyme breaker (total of 1#/1000 gal)

Used 70 gal of gel to mix tank - gelled tank measured 25#
Frac tank heated to 80 degrees
Will pump 2nd stage (Fruitland) after cleaning out PC frac

Signature

