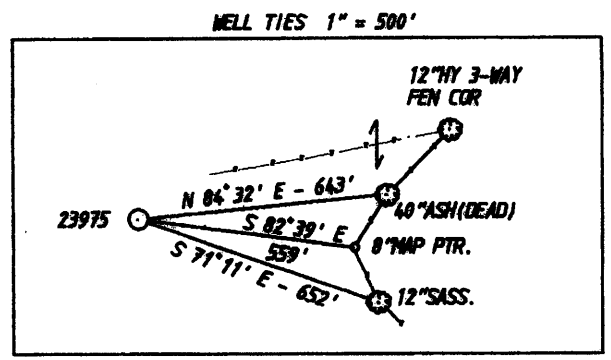


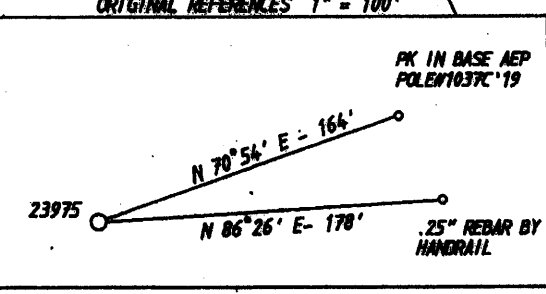
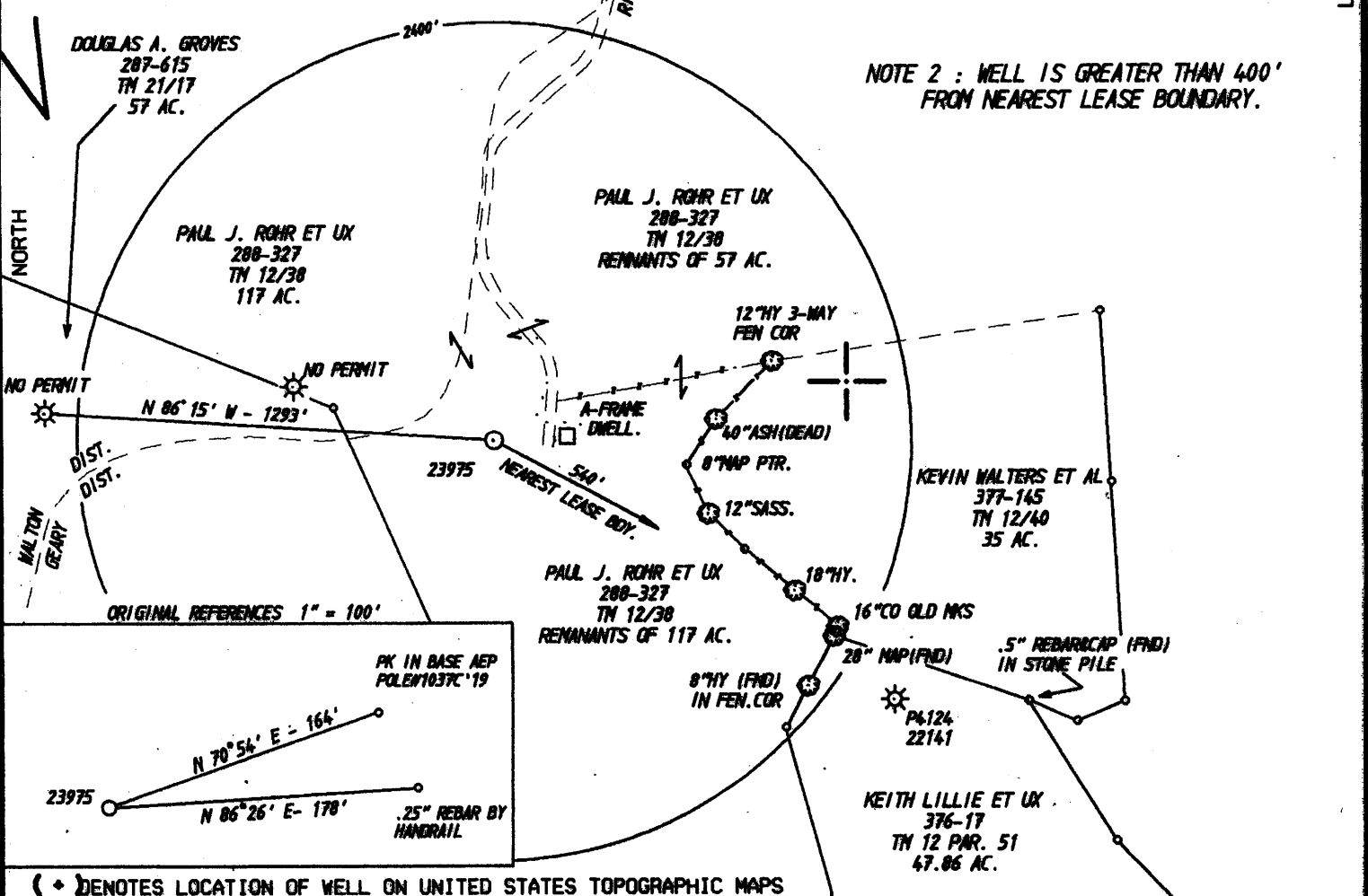
5,950'
 LATITUDE 38° 37' 30"
 LONGITUDE 81° 17' 30"

WELL SITE
 STATE PLANE WV
 SOUTH ZONE NAD 1927
 N - 581,556.34
 E - 1,910,680.55



NOTE 1: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

NOTE 2: WELL IS GREATER THAN 400' FROM NEAREST LEASE BOUNDARY.



(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. CNR23975(DEEP).DEN
 DRAWING NO. CNR 23975 RECERTIFIED
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:2500
 PROVEN SOURCE OF ELEVATION USGS SPOT ELEV. 1248' 4400' NE OF LOCATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) Paul E Miller
 R.P.E. _____ L.L.S. 647

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OIL AND GAS DIVISION

DATE MARCH 2, 2001
 OPERATOR'S WELL NO. 23975 - DRILL DEEPER
 API WELL NO. 47 087 04255-J

WELL TYPE: OIL X GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION: ELEVATION 1231' WATER SHED TRIBUTARY OF HURRICANE CREEK
 DISTRICT GEARY COUNTY ROANE
 QUADRANGLE CL10, WV 7.5'

SURFACE OWNER PAUL J. ROHR ET UX ACREAGE 82
 OIL & GAS ROYALTY OWNER JUANITA GROVES ET AL LEASE ACREAGE 150
 LEASE NO. 1213456

PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER X REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION BLACK RIVER ESTIMATED DEPTH _____
 WELL OPERATOR COLUMBIA NATURAL RESOURCES, INC. DESIGNATED AGENT W.A. WATSON, JR.
 ADDRESS PO BOX 6070, CHARLESTON, WV 25362 ADDRESS SAME

OCT 10 2008

COUNTY NAME ROANE PERMIT 4255-J

5,950'

LATITUDE 38° 37' 30"

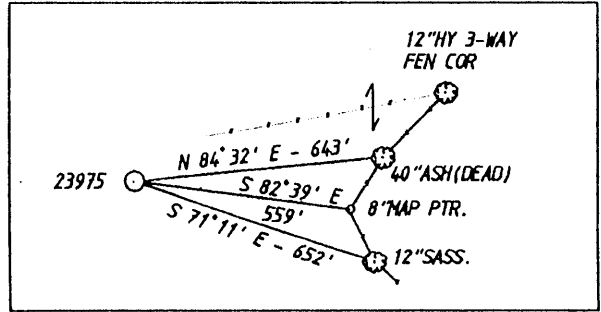
WELL TIES 1" = 500'

WELL SITE
STATE PLANE WV
SOUTH ZONE NAD 1927

N - 581,556.34
E - 1,910,680.55

DOUGLAS A. GROVES
287-615
TM 21/17
57 AC.

NOTE 1 : ALL WELLS IDENTIFIED
WITHIN 2400' ARE SHOWN

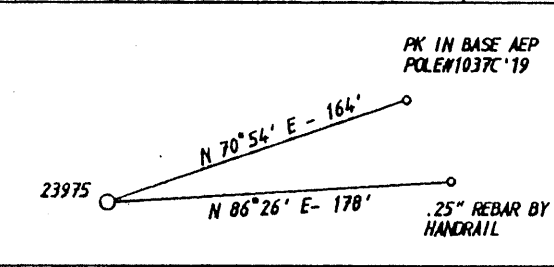
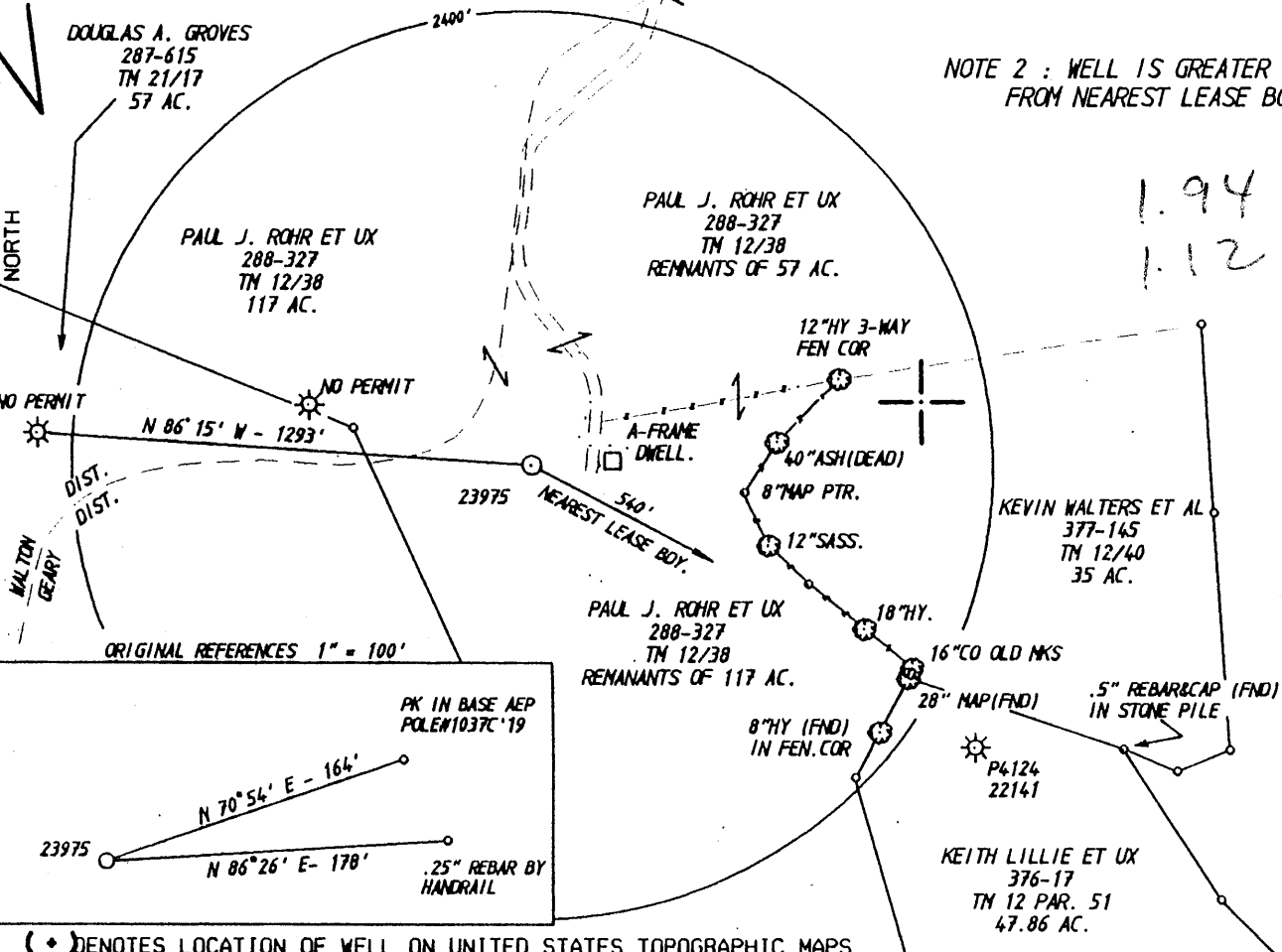


LONGITUDE 81° 17' 30"

10,285'

NOTE 2 : WELL IS GREATER THAN 400'
FROM NEAREST LEASE BOUNDARY.

1.94
1.12



(•) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. CNR23975(DEEP).DGN
DRAWING NO. CNR 23975 RECERTIFIED
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1:2500
PROVEN SOURCE OF ELEVATION USGS SPOT ELEV. 1248'
4400' NE OF LOCATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

(SIGNED) [Signature]
R.P.E. _____ L.L.S. 647

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DIVISION OF ENVIROMENTAL PROTECTION
OIL AND GAS DIVISION



DATE MARCH 2, 2001
OPERATOR'S WELL NO. 23975 - DRILL DEEPER
API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW X

LOCATION: ELEVATION 1231' WATER SHED TRIBUTARY OF HURRICANE CREEK
DISTRICT GEARY COUNTY ROANE
QUADRANGLE CL10, WV 7.5'

SURFACE OWNER PAUL J. ROHR ET UX ACREAGE 82
OIL & GAS ROYALTY OWNER JUANITA GROVES ET AL LEASE ACREAGE 150
LEASE NO. 1213456

PROPOSED WORK: DRILL CONVERT DRILL DEEPER X REDRILL FRACTURE OR
STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW
FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION BLACK RIVER ESTIMATED DEPTH _____
WELL OPERATOR COLUMBIA NATURAL RESOURCES, INC. DESIGNATED AGENT W.A. WATSON, JR.
ADDRESS PO BOX 6070, CHARLESTON, WV 25362 ADDRESS SAME

COUNTY NAME

PERMIT

ROA

4255 D

DEEP WELL

APR 06 2001

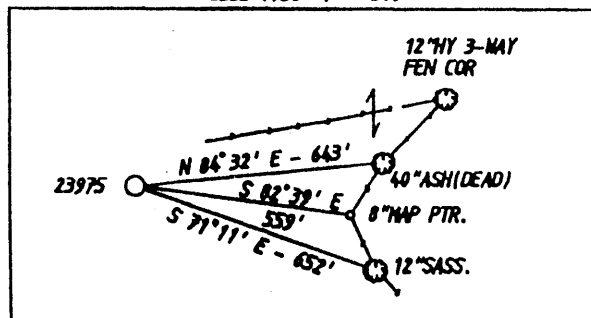
LATITUDE 38° 37' 30"

MELL SITE

STATE PLANE WV
SOUTH ZONE NAD 1927

N - 581,556.34
E - 1,910,680.55

WELL TIES 1" = 500'



LONGITUDE 81° 17' 30"

DOUGLAS A. GROVES
287-615
TH 21/17
65 AC.

DOUGLAS A. GROVES
287-615
TH 21/17
57 AC.

PAUL J. ROHR ET UX
288-327
TH 12/38
117 AC.

PAUL J. ROHR ET UX
288-327
TH 12/38
REMANANTS OF 57 AC.

NOTE: ALL WELLS WITHIN
2400' IDENTIFIED ARE SHOWN

1.94
1.13

NORTH

NO PERMIT

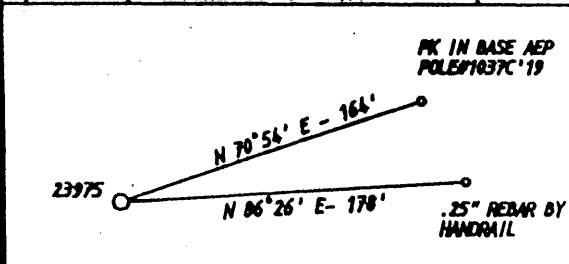
N 06° 15' W - 1293'

A-FRAME
WELL.

PAUL J. ROHR ET UX
288-327
TH 12/38
REMANANTS OF 117 AC.

KEVIN WALTERS ET AL
377-145
TH 12/40
35 AC.

REFERENCES 1" = 100'



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. CNR23975(DEEP).DGN
DRAWING NO. CNR23975(DEEP)
SCALE 1" = 500'
MINIMUM DEGREE OF
ACCURACY 1:2500
PROVEN SOURCE OF
ELEVATION USGS SPOT ELEV. 1248'
4400' NE OF LOCATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT
THIS PLAT IS CORRECT TO THE BEST OF MY
KNOWLEDGE AND BELIEF AND SHOWS ALL THE
INFORMATION REQUIRED BY LAW AND THE REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF ENERGY.

(SIGNED) [Signature]
R.P.E. _____ L.L.S. 647

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION



DATE JULY 21, 19 99

OPERATOR'S WELL NO. 23975

API WELL NO. 47 087 04255

STATE ROANE COUNTY ROANE PERMIT 47 087 04255

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF 'GAS,') PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1231' WATER SHED TRIBUTARY OF HURRICANE CREEK

DISTRICT GEARY COUNTY ROANE

QUADRANGLE CL10, WV 7.5'

SURFACE OWNER PAUL J. ROHR ET UX ACREAGE 82

OIL & GAS ROYALTY OWNER JUANITA GROVES ET AL LEASE ACREAGE 150

LEASE NO. 1213456-000

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW
FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION TRENTON, BLACK RIVER, COPPER ESTIMATED DEPTH 12,600'

WELL OPERATOR COLUMBIA NATURAL RESOURCES, INC. DESIGNATED AGENT W.A. WATSON, JR.

ADDRESS PO BOX 6070, CHARLESTON, WV 25362 ADDRESS SAME

FORM W-6

COUNTY NAME

PERMIT

DEEP WELL

5-5 0

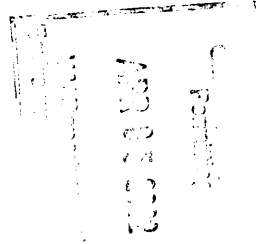
AUG 16 1999

DEEP

AB

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work



Farm name: J.P. & Ruth Rohr Operator Well No.: 823975DD
LOCATION: Elevation: 1231' Quadrangle: Clio WV 7.5'
District: Geary County: Roane
Latitude: 10285' S.of 38° 37' 30"
Longitude: 5950' W.of 81° 17' 30"

Company: COLUMBIA NATURAL RESOURCES
P. O. BOX 6070
CHARLESTON, WV 25362-0070

Agent: Thomas Blake
Inspector: Homer Dougherty
Permit Issued: 04/02/2001
Well work Commenced: 11-2-01
Well work Completed: 01/12/2002
Verbal Plugging:
Permission Granted on:
Rotary Rig Cable Rig
Total depth (ft.): 10462'
Fresh water depths (ft.): 165'
Salt water depths (ft.): 1702'
Is coal being mined in area (Y/N)? N
Coal depths (ft): None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill-Up (cu.ft.)
20	350	350	425
13 3/8	2230	2230	2135
9 5/8	6070	6070	355
7	9432	9432	165 / Latex
4 1/2		9072	

OPEN FLOW DATA

Producing formation: Trenton / Black River Pay zone depth (ft) from 9659' to 10462'

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 1,000 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours

Static rock Pressure 5147' psig (surface pressure) after 264 Hours

Producing formation: _____ Pay zone depth (ft) from _____ to _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: [Signature] COLUMBIA NATURAL RESOURCES, INC
By: Jason Bach
Date: 3-26-02

APR 12 2002

ROA 4255 D

WELL DATA SHEET



DATE: 03/26/2002
 WELL NAME: Rohr
 OPERATOR: CNR
 WELL #: 823975DD
 DISTRICT: Gearv
 COUNTY: Roane
 STATE: WV

API #: 47-087-04255D
 GEOLOGIST: Mark Brand
 DTD: 10462'
 LTD: 10445'
 ELEV. GL: 1231'
 ELEV. KB: 1251'
 BHT: 162'

FORMATION	TOP	BOTTOM
Salt Sand	1630	1846
Little Lime	1984	2038
Big Lime	2038	2168
Injun	2168	2224
Berea	2550	2570
Lower Huron	3390	4820
Onondaga	5738	5902
Oriskany	5902	5960
Helderberg	5960	6232
Salina	6232	7122
Newburg	6824	6836
Rose Hill	7172	7622
Tuscarora	7622	7716
Junata	7716	9440
Martinsburg	9440	9659
Trenton	9659	9810
Black River	9810	10462

LOGS RUN:

MUDLOG: 9708' - 10462'

REMARKS: Well is producing as an open hole completion.

WR-35

DATE: 05/16/00

API #:47-087-4255

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Reviewed _____

Farm name: Paul J. Rohr
Location Elevation: 1231
District: Geary

Operator Well No: 823975
Quadrangle: Clio
County: Roane

COLUMBIA NATURAL RESOURCES	Casing & Tubing	Used in drilling	Left in Well	Cement fill up Cu.Ft.
Address: P. O. Box 6070 Charleston, WV 25362-0070	20"	350'	350'	425
Agent: W. A. Watson, Jr.				
Inspector: Homer Dougherty	13 3/8	2230'	2230'	2135
Date Permit Issued: 8-13-99				
Date Well work commenced: 8-20-99	9 5/8	6070'	6070'	355
Date Well Work completed: 12-21-99				
Verbal Plugging: na	7"	9432'	9432'	165 Latex
Date Permission granted on: na				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>	4 1/2		9542'	
Total Depth (feet):9712				
Fresh Water Depth (ft):165				
Salt Water Depth (ft.):1702				
Is coal being mined in area (N <input checked="" type="checkbox"/> Y <input type="checkbox"/>)				
Coal Depths (ft): None				

RECEIVED
Office of Oil & Gas
Permitting
JUN 07 2000
WV Division of
Environmental Protection

OPEN FLOW DATA

Producing formation: Trenton Pay zone depth(ft) from 9658 to 9712 ; from to
 Gas: Initial open flow MCF/d Oil: Initial open flow 0Bbl/d
 Final open flow 28M MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests Hours
 Static rock Pressure 4897 psig (surface pressure) after 72 Hours

2nd producing formation: Pay zone depth (ft) from to ; from to
 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
 Final open flow MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests Hours
 Static rock Pressure psig (surface pressure) after Hours

3rd producing formation: Pay zone depth (ft) from to ; from to
 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
 Final open flow MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests Hours
 Static rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: _____
 COLUMBIA NATURAL RESOURCES, INC.
 By: _____
 Date: 6/9/00

JUN 9 2000

ROA 4255
 Rec'd 6/24/2000
 6/9/2000
 KLR

TO: HAMLIN

JUN-01-'00 THU 08:16 ID:

TEL NO:

#887 P01

WELL DATA SHEET

date 11/10/99

well name Groves

operator CNR

WELL NO. 23975 PERMIT NO. 4255
 COUNTY Roane STATE WV GEOLOGIST Rothman
 TWP Geary

ELEVATION KB 1251 TOTAL DEPTH LTD 9414
 GR 1231 DTD 9442
 BEFORE FRAC. O.F. _____ TARGET FORMATION Black River

BHT = 153 DEGREES @ 9414 FT.

PAY ZONE	PAY INTERVAL	PAY THICKNESS	POROSITY	WATER SATURATION

GAS & OIL SHOWS
 DEPTH AMOUNT

WATER SHOWS
 DEPTH

RECEIVED
 Office of Oil & Gas
 AMOUNT/Permitting
 JUN 07 2000
 WV Division of
 Environmental Protection

FORMATION TOPS & BOTTOMS

Salt Sand 1630-1846 Marcellus 5706-5738 Trenton 9440-7.
 Littlelime 1934-2038 Onondaga 5738-5902
 Biglime 2038-2168 Onondaga 5902-5960
 Injun 2168-2224 Helderberg 5960-6232
 Berea 2550 - Salina 6232-7172
 Gordon 2844-2866 Newburg 6824-6836
 Lower Huron 3390-4820 Rose Hill 7172-7622
 Lower Alexander 4942-4998 Tuscarora 7622-7716
 Rhinestreet 5152-5510 Juniata 7716-9440

LOGS RUN

SL// GR, LDT, CNL, DLL, BHC.

MUDLOG RUN

Stratigraphic 5420-9660

REMARKS

Post-it* Fax Note	7671	Date <u>6/1</u>	# of pages <u>1</u>
To <u>KAY</u>		From <u>E ROTHMAN</u>	
Co./Dept. <u>HAMLIN</u>		Co.	
Phone #		Phone #	
Fax #		Fax #	

WELL # 823975

PERFORATIONS:

Stage 1, Perforations: holes from to

Stage 2, Perforations: holes from to

Stage 3 Perforations: holes from to

Stage 4, Perforations: holes from to

FRACTURING:

1ST STAGE:

Perforations from	-		Acid	gal.		HCL,
Breakdown @	PSI,	Avg. Rate	Bbl.,	SCFM <input type="checkbox"/> OR	Total sand	BPM <input type="checkbox"/>
ATP	PSI,	Total H ₂ O	Bbl.,	Total sand	#	
Total N ₂	Scf.	I.S.I.P.		15 min.		

2nd STAGE:

Perforations from	-		Acid	gal.		HCL,
Breakdown @	PSI,	Avg. Rate	Bbl.,	SCFM <input type="checkbox"/> OR	Total sand	BPM <input type="checkbox"/>
ATP	PSI,	Total H ₂ O	Bbl.,	Total sand	#	
Total N ₂	Scf.	I.S.I.P.		15 min.		

RECEIVED

Office of Oil & Gas
Permitting

JUN 07 2000

WV Division of
Environmental Protection

3rd STAGE:

Perforations from	-		Acid	gal.		HCL,
Breakdown @	PSI,	Avg. Rate	Bbl.,	SCFM <input type="checkbox"/> OR	Total sand	BPM <input type="checkbox"/>
ATP	PSI,	Total H ₂ O	Bbl.,	Total sand	#	
Total N ₂	Scf.	I.S.I.P.		15 min.		

4th STAGE:

Perforations from	-		Acid	gal.		HCL,
Breakdown @	PSI,	Avg. Rate	Bbl.,	SCFM <input type="checkbox"/> OR	Total sand	BPM <input type="checkbox"/>
ATP	PSI,	Total H ₂ O	Bbl.,	Total sand	#	
Total N ₂	Scf.	I.S.I.P.		15 min.		

Additional Comments: No stimulation required

ROA 4255

JUN 9 2000