

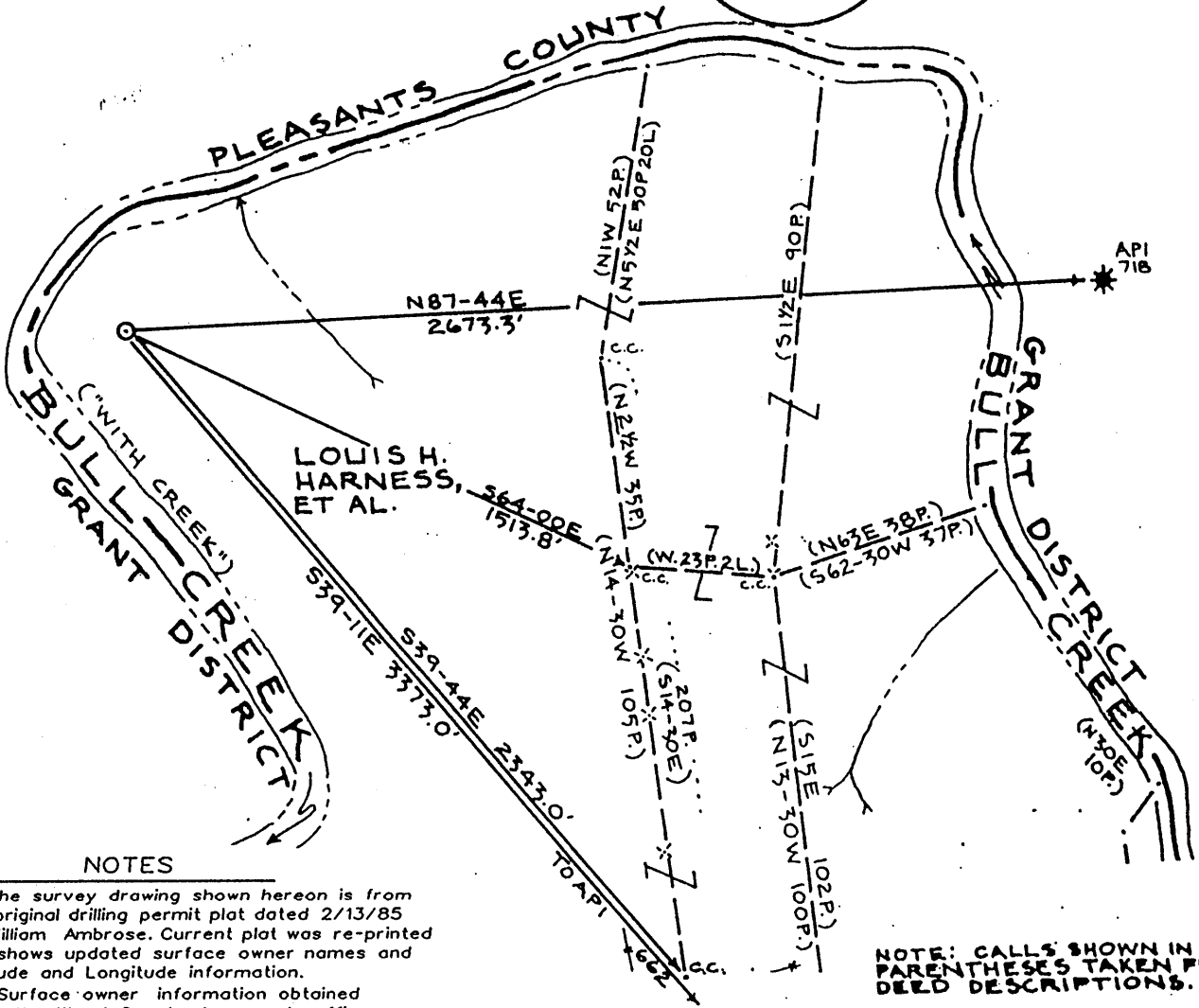
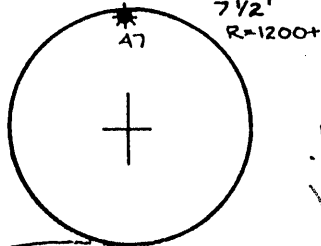
Long. - 81° 21' 18.9"

6,200'

LATITUDE 39° 20' 00"

C.C.: "CALCULATED COR." - FROM FEN. LOCATION & DEED INFO. - NO PHYSICAL EVIDENCE FOUND.

LOCATION TIES: 16" DBL. W.O. N12W 151.5' 12" PINE S83W 76.8'



LONGITUDE 81° 20' 00"

Lat. - 39° 19' 34.4"

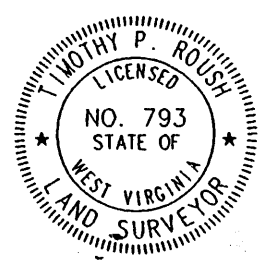
NOTES

- 1 - The survey drawing shown hereon is from the original drilling permit plat dated 2/13/85 by William Ambrose. Current plat was re-printed and shows updated surface owner names and Latitude and Longitude information.
2 - Surface owner information obtained from the Wood County Assessor's office.
3 - Well Latitude and Longitude established by scaling from Willow Island 7.5' Quadrangle.
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

NOTE: CALLS SHOWN IN PARENTHESES TAKEN FROM DEED DESCRIPTIONS.

FILE NO. 21-15
DRAWING NO. 1
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION WVDEP Records

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 MINES.
(SIGNED) Timothy P. Roush PS 793



WEST VIRGINIA
Division of Environmental Protection
Office of Oil and Gas
1356 Hansford St.
Charleston, West Virginia 25301



DATE April 17, 2001
FARM Harness NO. 3
API WELL NO. 47-107-01356F

WELL TYPE: OIL X GAS X LIQUID INJECTION WASTE DISPOSAL
LOCATION: ELEVATION 627' WATERSHED Bull Creek DISTRICT Union COUNTY Wood QUADRANGLE Willow Island 7.5'
SURFACE OWNER William Anderson ACREAGE 90 Ac.
OIL & GAS ROYALTY OWNER Louis H. Harness, et al. LEASE ACREAGE 215 Ac.
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION Shale ESTIMATED DEPTH 3819'
WELL OPERATOR GasSearch Corporation DESIGNATED AGENT Noble Zickefoose
ADDRESS *13 Industrial Boulevard ADDRESS *13 Industrial Boulevard Parkersburg, WV 26101

FORM IV-6

WOOD 1356 F

JUN - 1 2001

C.C. "CALCULATED COR." - FROM FEN. LOCATION & DEED INFO. - NO PHYSICAL EVIDENCE FOUND.

LOCATION TIES: 16" DBL. W.O. N12W 151.5' 12" PINE S83W 76.8'

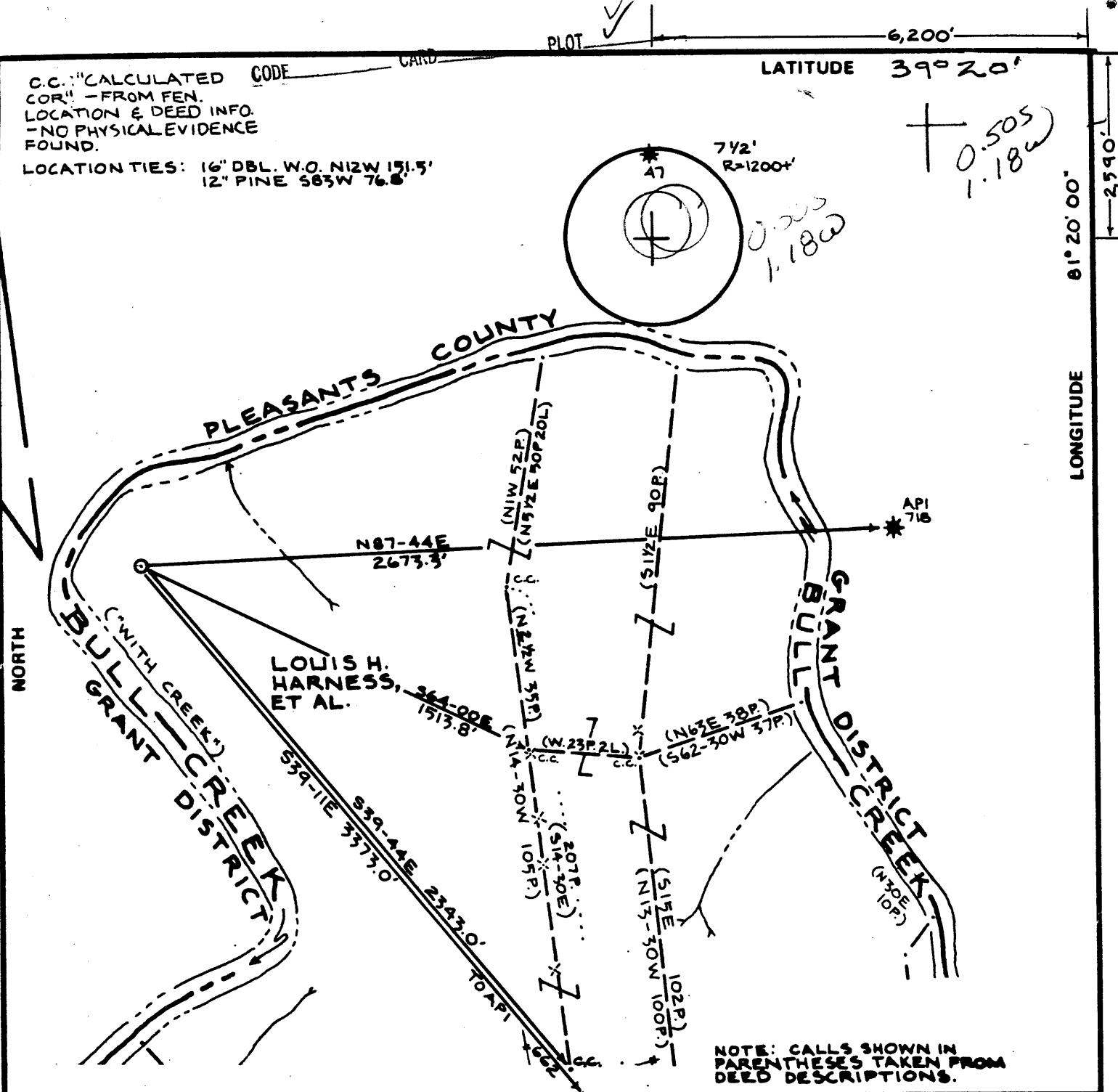
LATITUDE 39° 20'

PLOT

6,200'

LONGITUDE 81° 20' 00"

LONGITUDE 2,590'



FILE NO. 85112
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION USGS MONUMENT "791"

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 MINES.
 (SIGNED) William Ambrose
 R.P.E. _____ L.L.S. 568

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE 13 FEBRUARY, 1985
 OPERATOR'S WELL NO. HARNESSES #3
 API WELL NO. 47-107-1356
 STATE COUNTY PERMIT.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 627 WATER SHED BULL CREEK
 DISTRICT UNION COUNTY WOOD
 QUADRANGLE WILLOW ISLAND Marietta 13' 50"
 SURFACE OWNER LOUIS H. HARNESSES, ET AL. ACREAGE 90
 OIL & GAS ROYALTY OWNER _____ LEASE ACREAGE 215
 LEASE NO. _____

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

MAR 11 1985

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5000'
 WELL OPERATOR GUYANOGA EXPLORATION DESIGNATED AGENT ROGER HUNTER
 ADDRESS ROUTE 1 MARIETTA OHIO 45750 ADDRESS P.O. BOX 1356 CHARLESTON WEST VIRGINIA 25325

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

Revised

Well Operator's Report of Well Work

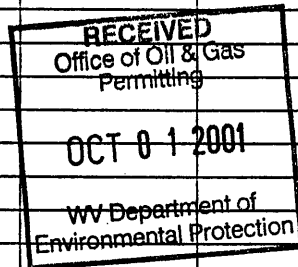
Farm name: Anderson Operator Well No.: Harness #3

LOCATION: Elevation: 627' Quadrangle: Willow Island 7.5'

District: Union County: Wood
Latitude: 2590 Feet South of 39 Deg. 19 Min. 34.4 Sec.
Longitude 6200 Feet West of 81 Deg. 21 Min. 18.9 Sec.

Company: GasSearch Corporation

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: #13 Industrial Blvd.	9 5/8"	200'	200'	to surface
Parkersburg, WV 26101	7"	1842'	1842'	to 1000'
Agent: Noble Zickefoose	4 1/2"		3819'	to 1470'
Inspector: Larry Parrish				
Date Permit Issued: 5/30/01				
Date Well Work Commenced: 6/5/01				
Date Well Work Completed: 6/5/01				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet): 3847				
Fresh Water Depth (ft.): 45				
Salt Water Depth (ft.): 1400				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.):				



OPEN FLOW DATA

Producing formation Speechly-Balltown Pay zone depth (ft) 3092' to 3432'
 Gas: Initial open flow 18 MCF/d Oil: Initial open flow 7 Bbl/d
 Final open flow 3 MCF/d Final open flow 1.3 Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 400 psig (surface pressure) after 24 Hours

Second producing formation Berea-Balltown Pay zone depth (ft) 1974' to 3577'
 Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow 200 MCF/d Final open flow 4 Bbl/d
 Time of open flow between initial and final tests N/A Hours
 Static rock Pressure 400 psig (surface pressure) after 48 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: Noble Zickefoose
By: Noble Zickefoose
Date: 09/26/01

OCT 5 2001

WOOD 1356 F

- 1st Stage (1985): Speechly, Balltown (3092' to 3432) 1,300 BBLs treated water.
- 2nd Stage (2001): Warren, Speechly, Balltown (2942' to 3577') 504 MCFN₂ at 47 MPM
- 3rd Stage (2001): Berea, Gantz, Gordon (1974' to 2356') 15,164 lbs 20-40 Sand, 370 BBLs of fluid, 11 MCFN₂

<u>FORMATION</u>	<u>TOP FEET</u>	<u>BOTTOM FEET</u>	<u>REMARKS</u>
Sand, Shale, Red Rock	0	891	
Salt Sands	891	1242	
Shale	1242	1357	
Maxon	1357	1348	
Shale	1348	1408	
Big Injun-Squaw	1408	1669	
Siltstone, Shale	1669	1975	
Berea	1975	1984	
Shale	1984	2089	
Gantz	2089	2094	
Shale	2094	2204	
Thirty Foot Sand	2204	2240	
Shale	2240	2338	
Gordon	2338	2370	
Shale	2370	2990	
Speechly	2990	3400	
Balltown	3400	3650	
Shale	3650	3847 - TD	

RECEIVED
SEP - 8 1986



WR-35

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date 7/27/86
Operator's
Well No. #3
Farm Harness
API No. 47-107-1356

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil x / Gas y / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 627' Watershed Bull Creek
District: Union County Wood Quadrangle Willow Island

COMPANY Cuyahoga Exploration & Development Corp.

ADDRESS Route #1, Marietta, Ohio 45750

DESIGNATED AGENT Roger Hunter

ADDRESS P.O. Box 1386, Charleston, W.V. 25325

SURFACE OWNER Lulu Harness & Everette Anderson

ADDRESS 1011 Highland Ave., Williamstown, Wv

MINERAL RIGHTS OWNER Everette Anderson

ADDRESS 1011 Highland Ave., Williamstown, Wv.

OIL AND GAS INSPECTOR FOR THIS WORK Glenn

Robinson ADDRESS Route #1, Mt. Pleasant Estates
Mineral Wells, Wv 26150

PERMIT ISSUED March 5, 1985

DRILLING COMMENCED March 27, 1985

DRILLING COMPLETED April 29, 1985

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8	200'	200'	to surface
8 5/8			
7	1842'	1842'	100 c. f.
5 1/2			
4 1/2	3819'	3819'	284 c. f.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3800' feet

Depth of completed well 3847' feet Rotary XX / Cable Tools

Water strata depth: Fresh 45' feet; Salt 1400 feet

Coal seam depths: Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Speechly/Balltown Pay zone depth 3407 feet

Gas: Initial open flow 18 Mcf/d Oil: Initial open flow 7 Bbl/d

Final open flow 3 Mcf/d Final open flow 1.3 Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 400 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation N/A Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side) SEP 15 1986

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perfs 3092 to 3432 20 shots
 Spot 500 ga. 15% HCL, Breakdown @1210 psi w/H₂O
 Frac. pump 1300 BBI H₂O @ 36 BBI/min @average
 pressure of 2372 psi.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and gas
First Salt			891	922	
Second Salt			1062	1149	
Third Salt			1230	1242	
Maxton			1357	1348	
Big Injun-Squaw			1408	1669	250' clean sand
Weir			1721	1744	
Welsh Stray			1916	1918	6% porosity
Berea			1975	1984	10% porosity
Devonian Shale			1984	TD	
Gantz			2089	2094	8% porosity
Thirty Foot			2204	2240	3 - 5% porosity
Gordon			2338	2370	4 - 8% porosity
Speechly			3407	3428	
				TD 3847	

404 1984
 813 3234

(Attach separate sheets as necessary)

Cuyahoga Exploration & Development Corporation
 Well Operator

By: Robert E. Carloni

Date: August 28, 1986

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic
 detailed geological record of all formations, including
 ... encountered in the drilling of a well."

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MAR 1 1985



1) Date: February 26, 1985
 2) Operator's Well No. Harness #3
 3) API Well No. 47 - 107 - 1356
 State _____ County _____ Permit _____

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

OIL & GAS DIVISION

- 4) WELL TYPE: Oil Gas MINES
- B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow /)
- 5) LOCATION: Elevation: 627 Watershed: Bull Creek
 District: Union County: Wood Quadrangle: Willow Island
- 6) WELL OPERATOR Cuyahoga Exp. & Dev. Corp 7) DESIGNATED AGENT Roger Hunter
 Address Route 1 Address P. O. Box 1386
Marietta, OH 45750 12125 Charleston, WV 25325
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Mike Underwood Name not yet determined
 Address Route 2, Box 135 Address _____
Salem, WV 26426
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate /
 Plug off old formation _____ / Perforate new formation /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale/Benson Formation
- 12) Estimated depth of completed well, 5,000 feet
- 13) Approximate trata depths: Fresh, 100 feet; salt, 1,500 feet.
- 14) Approximate coal seam depths: not applicable Is coal being mined in the area? Yes _____ / No /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor	11 3/4		38.0	X		60'	60'			
Fresh water	9 5/8		36.0	X		200'	200'	<u>CJS MEAT</u>		
Coal										
Intermediate	7		20.0	X		2500'	2500'	300 sacks		
Production	4.5		10.5	X		5000'	5000'	300 sacks	Depths set	
Tubing										
Liners									Perforations: Top Bottom	

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-107-1356 Date March 5, 19 85

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires March 5, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>52</u>	<u>MW</u>	<u>MW</u>	<u>MW</u>	<u>1240</u>

Margaret J. Harsh
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File