

(Jamie 7/10/88)

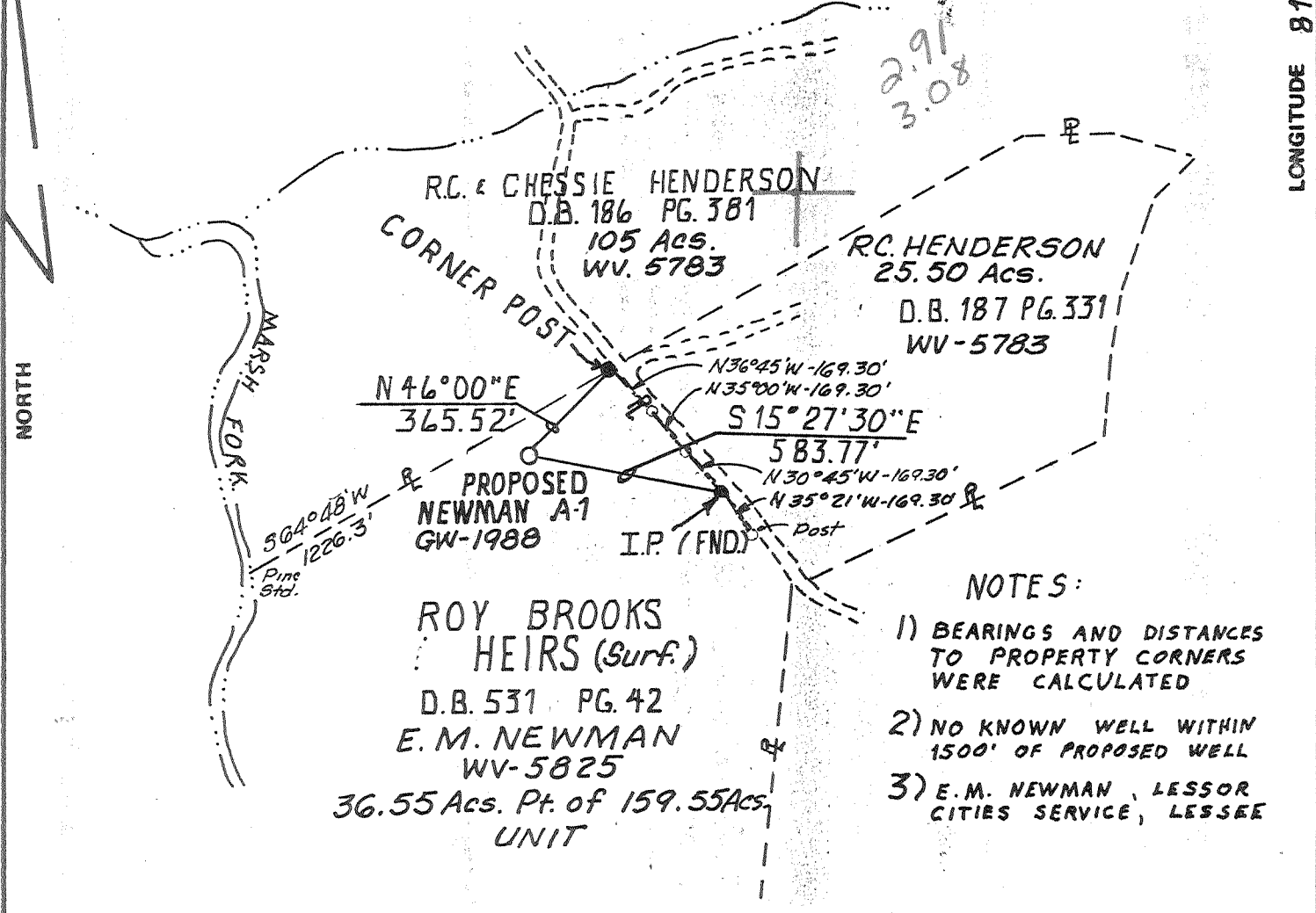
LATITUDE 37°47'30"

7.5

0.035
0.820

LONGITUDE 81°22'30"

POWER POLE
APC 795 D417
N16°41'15" 154.17
GATE POST
N10°E 125.2
PROPOSED WELL
SCALE 1"=400'
REFERENCES



2.91
3.08

- NOTES:
- 1) BEARINGS AND DISTANCES TO PROPERTY CORNERS WERE CALCULATED
 - 2) NO KNOWN WELL WITHIN 1500' OF PROPOSED WELL
 - 3) E.M. NEWMAN, LESSOR CITIES SERVICE, LESSEE

FILE NO. _____
DRAWING NO. _____
SCALE 1"=500'
MINIMUM DEGREE OF ACCURACY 1 IN 2500
PROVEN SOURCE OF ELEVATION KNOWN ELEV. @ USGS BM 1888: 1895.068

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) Ralph E. Norman Jr.
R.P.E. 9682 L.L.S. _____

PLACE SEAL HERE

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



DATE 3-10, 1988
OPERATOR'S WELL NO. NEWMAN A-1
API WELL NO. G.W. 1988
47 081 - 0824
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1984.31 WATER SHED MARSH FORK
DISTRICT TRAP HILL COUNTY RALEIGH
QUADRANGLE ARNETT, W. VA. 7 1/2' 218 036 & eccles sc
SURFACE OWNER ROY BROOKS HEIRS ACREAGE 36.55
OIL & GAS ROYALTY OWNER E.M. NEWMAN LEASE ACREAGE 36.55 PART OF 159.55 AC. UNIT
LEASE NO. WV5825 4612
PROPOSED WORK: DRILL X 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 DEVONIAN SHALE ESTIMATED DEPTH 6300'
WELL OPERATOR CITIES SERVICE OIL & GAS CORP. DESIGNATED AGENT PAUL D. PHILLIPS
ADDRESS P.O. BOX 873 169 ADDRESS P.O. BOX 873
CHARLESTON, W.VA. 25323 CHARLESTON, W.VA. 25323

JUN 21 1988

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APR 24 1989

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Well Operator's Report of Well Work

Farm name: BROOKS, ROY A. - HEIRS Operator Well No.: A-1, GW-1988

LOCATION: Elevation: 1984.31 Quadrangle: ARNETT
District: TRAP HILL County: RALEIGH
Latitude: 3350 Feet South of 37 Des. 48Min. 0 Sec.
Longitude: 4350 Feet West of 81 Des. 22 Min. 30 Sec.

Company: OXY USA, INC.
P.O. BOX 873
CHARLESTON, WV

Agent: DELBERT G. OLIVER

Inspector: RODNEY G. DILLON
Permit Issued: 06/15/88
Well work Commenced: 8-6-88
Well work Completed: 4-9-89
Verbal Plugging: 670 reached 8/27/88
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 6544'
Fresh water depths (ft) 280', 340',
343', 380'
Salt water depths (ft) _____
Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

Casings & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Conductor			
20"	26'	26'	Surface
Fresh Wtr			
9.625"	1002'	1002'	Surface
Intermediate			
7"	2677'	2677'	Surface
Production			
4.5"	6535'	6535'	753 cuft
Tubing			
2.375"		6348'	

OPEN FLOW DATA

Rhinestreet, Upper Devonian,
Producing formation Maxon Pay zone depth (ft) 1690-6360'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 38L MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure 370 psig (surface pressure) after 10 Hours

Second producing formation _____ Pay zone depth (ft) _____
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.

Delbert G. Oliver, Appalachian Project Manager
For: OXY USA, INC.
By: Delbert G. Oliver
Date: April 21, 1989

APR 28 1989

NEWMAN A-1

Details of perforated intervals, fracturing or stimulating, physical change, etc.:

FORMATION

Rhinestreet Perforated 5868-6360' (71 holes). Frac'd w/ 50,000# sand, 96 BLW, 505 MCF N2.

Upper Devonian Perforated 3605-4530' (71 holes). Frac'd w/ 50,000# sand, 96 BLW, 288 MCF N2.

Maxon Perforated 1690-2352' (87 holes). Frac'd w/ 42,100# sand, 146 BLW, 538 MSCF N2.

WELL LOG:

<u>Formation</u>	<u>Top (Ft)</u>	<u>Bottom (Ft)</u>
Sand	0	90
Siltstone	90	368
Sand	368	467
Siltstone	467	592
Sand	592	711
Siltstone	711	881
Sand	881	928
Siltstone	928	1220
Sand	1220	1240
Siltstone	1240	1423
Sand	1423	1450
Siltstone	1450	1515
Ravencliff	1515	1603
Avis Limestone	1603	1635
Siltstone	1635	1944
Upper Maxton	1944	2008
Siltstone	2008	2158
Middle Maxton	2158	2208
Siltstone	2208	2316
Lower Maxton	2316	2352
Siltstone	2352	2364
Little Lime	2364	2424
Pencil Cave	2424	2485
Big Lime	2485	2846
Shale	2846	2908
Siltstone	2908	3028
Weir	3028	3126
Shale	3126	3425
Sunbury	3425	3442
Devonian Shale	3442	3605
Gordon	3605	3643
Devonian Shale	3643	4556
Lower Huron	4556	5361
Java	5361	5868
Rhinestreet	5868	6488
Marcellus	6488	6538
Onondaga	6538	

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

APR 28 1989

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: ³⁰⁷² OXY USA INC (Formerly Cities Service Oil & Gas Corp.) ^{9800, 7, 218}
- 2) Operator's Well Number: Newman A-1, GW-1988 3) Elevation: 1984.31
- 4) Well type: (a) Oil or Gas
 (b) If Gas: Production Underground Storage
 Deep Shallow
- 5) Proposed Target Formation(s): Devonian Shale 441
- 6) Proposed Total Depth: 6300 feet
- 7) Approximate fresh water strata depths: 115', 150', 190' @ 243' @ 103'
- 8) Approximate salt water depths: ~~115', 150', 190'~~
- 9) Approximate coal seam depths: 110', 545', 770' ~~770-753'~~ 834-838' 882-887'
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work:
- 12) DEVONIAN SHALE DRILLING WELL

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	16	H-40	52	40	40	Surface
Fresh Water	9-5/8	H-40	32	300	300	Surface
Coal						380SR18-11.3 380SR18-11.2
Intermediate	7	K-55	23	2500	2500	Surface
Production	4-1/2	K-55	11.6	6300	6300	380SR18-11.1 410 cu ft
Tubing	2-3/8	EUE	4.7	6300	6300	
Liners						

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PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Fee(s) paid: Plat Well Work Permit Bond Reclamation Fund Blanket WPCP Agent
 (Type)

6898

30059

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MAY 27 1988

Page 1 of 4
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: May 25, 1988
Operator's well number
Newman A-1, GW 1988
API Well No: 47 - 081 - 0824
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name Roy A. Brooks Heirs
Address c/o Riley Brooks
Box 52, Glen Fork, WV 25845
 - (b) Name Mrs. Cleo Newman
Address 26 Malaca Avenue
Coral Gables, FL 33134
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name N/A
Address _____
- (b) Coal Owner(s) with Declaration
Name Troy Henderson
Address Box 17
Glen Daniel, WV 25844
Name _____
Address _____
- (c) Coal Lessee with Declaration
Name N/A
Address _____
- 6) Inspector Rodney Dillon
Address P. O. Box 1526
Sophia, WV 25921
Telephone (304)- 683-3982

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 4 on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator OXY USA INC.
By: Delbert G. Oliver *BW*
Its: Project Manager
Address P. O. Box 873
Charleston, WV 25323
Telephone (304) 344-8383

Subscribed and sworn before me this 25 day of MAY, 1988

Donald J. Bay Commissioner Notary Public
My commission expires June 1, 1988

81 00824P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-081-00824 WELL NO.: WV 122481 (Newman AI GW1998)

FARM NAME: Roy A. Brooks Heirs

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Raleigh DISTRICT: Trap Hill 7

QUADRANGLE: Arnett 7.5' 218

SURFACE OWNER: Larry and Anna Brooks

ROYALTY OWNER: Edward N. and Cleo Newman, et al.

UTM GPS NORTHING: 4182672

UTM GPS EASTING: 465653 GPS ELEVATION: 604 m (1983 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS : Post Processed Differential
Real-Time Differential
- Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

RECEIVED
Office of Oil and Gas

APR 08 2014
WV Department of
Environmental Protection

Ray Brown
Signature

PS # 2180
Title

6/20/14
Date

8100824P

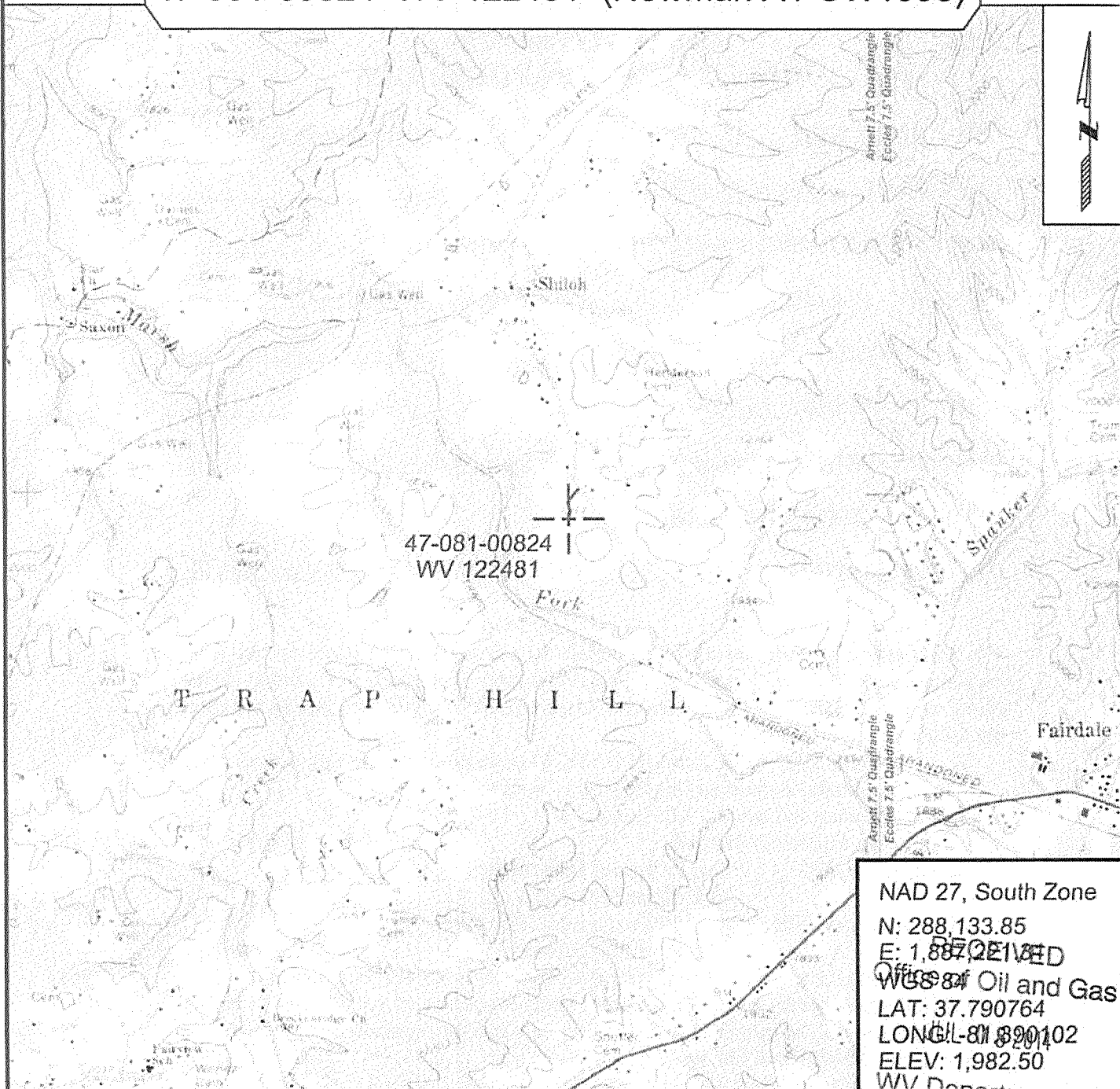
Topo Quad: Arnett 7.5' Scale: 1" = 2000'

County: Raleigh Date: May 30, 2014

District: Trap Hill Project No: 23-06-00-08

47-081-00824 WV 122481 (Newman A1 GW1998)

Topo



NAD 27, South Zone
N: 288,133.85
E: 1,887,211.14
Office of Oil and Gas
LAT: 37.790764
LONG: -81.820102
ELEV: 1,982.50
WV Department of



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
1-800-482-8606
237 Birch River Road
Birch River, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

PREPARED FOR:
Environmental Protection
EQT Production Company
P.O. Box 280
Bridgeport, WV 26330