

WW-7
8-30-06



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

API: 47-001-02791 WELL NO.: JM5

FARM NAME: James Mayle

RESPONSIBLE PARTY NAME: Wolf Run Mining LLC

COUNTY: Barbour DISTRICT: Pleasant

QUADRANGLE: Philippi

SURFACE OWNER: Ark Land LLC

ROYALTY OWNER: Ark Land LLC

UTM GPS NORTHING: 4337669.514'

UTM GPS EASTING: 580830.561' GPS ELEVATION: 1430.65'

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 _____

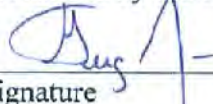
Real-Time Differential _____

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.



Signature

Power of Attorney

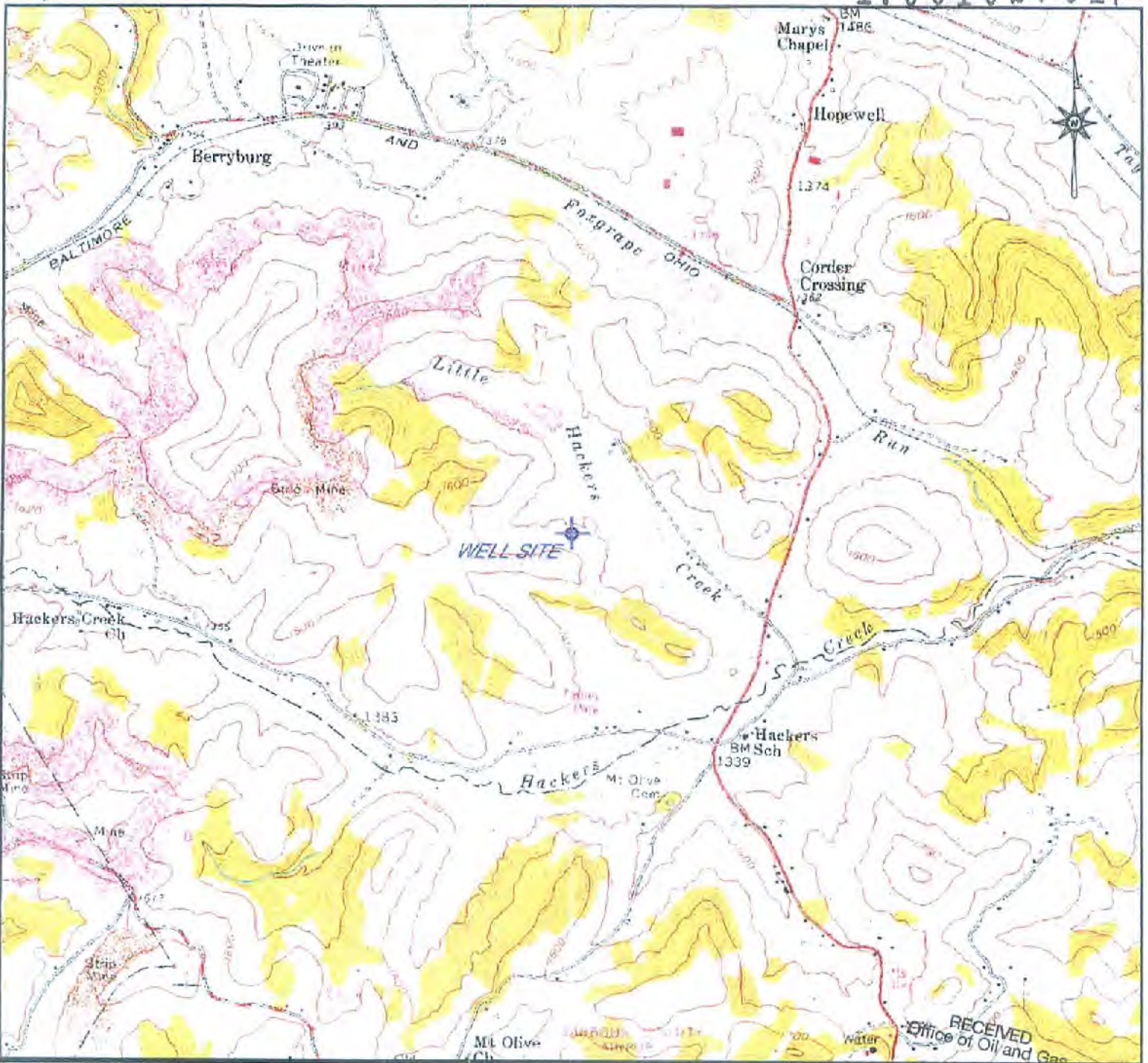
Title

September 2, 2021

Date

RECEIVED
Office of Oil and Gas
OCT 18 2021
WV Department of
Environmental Protection

10/29/2021



LATITUDE: 39° 11' 04"
 LONGITUDE: 80° 03' 51"
 NEAREST WATERCOURSE: Little Hackers Creek
 NEAREST TOWN: Phillips

OPERATOR'S WELL NO. JM5
 API WELL NO.
47 - 001 - 02791
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1433' WATERSHED Little Hackers Creek
 DISTRICT Pleasant COUNTY Barbour
 QUADRANGLE Phillips 7 1/2'
 SURFACE OWNER: Ark Land LLC ACREAGE 114.5
 OIL & GAS ROYALTY OWNER: Ark Land LLC LEASE ACREAGE 114.5
 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) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG _____
 TARGET FORMATION Ek ESTIMATED DEPTH 4650'
 WELL OPERATOR Wolf Run Mining LLC DESIGNATED AGENT Charles E. Duckworth
 ADDRESS 100 Tygart Drive, Grafton, WV 26354 ADDRESS 100 Tygart Drive, Grafton, WV 26354

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 OCT 18 2021
 WV Department of
 Environmental Protection

DRAWN		DATE		BY	
09/21	TAN				
REVISED		DATE		BY	
APPROVED		DATE		BY	

ARCH Wolf Run Mining LLC

A Subsidiary of Arch Resources, Inc.
 100 Tygart Drive, Grafton, WV 26354

API WELL NO. 47-001-02791 WELL NO. JM5 LOCATION MAP

Scale:	File No.:	Sheet No.:
1"=2000'	47-001-02791 JM5.dgn	1 of 1

Path: DWG\WOLF RUN\SENTINEL\SENTINEL PERMITS\WV 001-02791-01.dwg

10/29/2021