

HEDRICK UNIT

320 ACRES±

WELL NO. 1

U.S. FOREST SERVICE
TRACT NO. 102
1862 ACRES±
(T&F EXPLORATION,
L.P. LEASEHOLD)

U.S. FOREST SERVICE
TRACT NO. 870
121 ACRES±
(T&F EXPLORATION, L.P.
LEASEHOLD)

U.S. FOREST SERVICE
TRACT NO. 102-A
420 ACRES±
(T&F EXPLORATION,
L.P. LEASEHOLD)

U.S. FOREST SERVICE
TRACT NO. 356
114.3 ACRES±

NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 9-9-05.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A DEED DATED THE 5TH DAY OF MARCH, 1923 FROM JAMES SITES, ET UX TO S. BAXTER HEDRICK AS RECORDED IN THE OFFICE OF THE COUNTY CLERK OF PENDLETON COUNTY, WEST VIRGINIA.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF PENDLETON COUNTY IN AUGUST, 2005.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. THERE ARE NO OTHER WELL OPERATORS WITH LEASEHOLDS WITHIN 1,500' OF THE PROPOSED BOTTOM HOLE LOCATION OF THE HEDRICK NO. 1 BASED ON COPIES OF LEASE AGREEMENTS PROVIDED TO SLS BY T&F EXPLORATION.
7. THE PROPOSED BORE DEVIATION IS INTENTIONAL DUE TO THE TOPOGRAPHY AT THE SURFACE LOCATION.

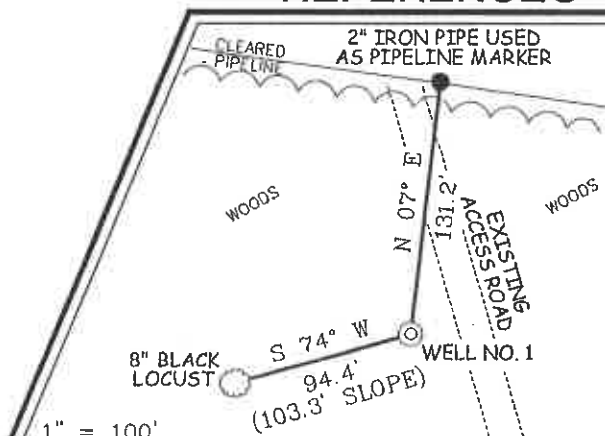
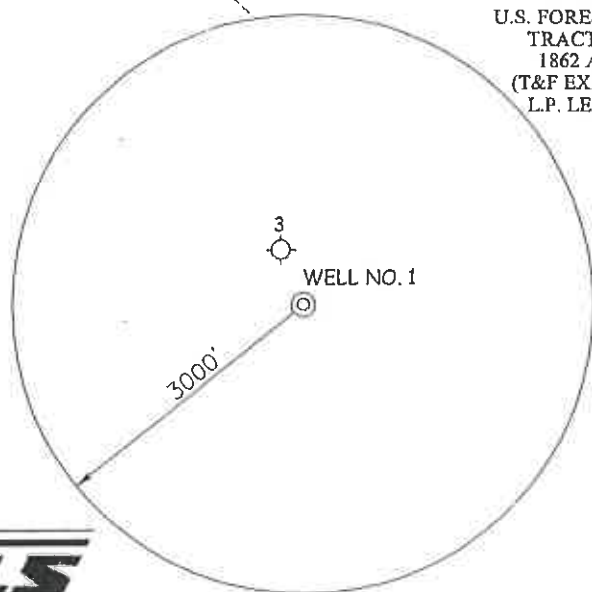
REFERENCES

WELL NO. 1
STATE PLANE
COORDINATES
SURFACE LOCATION

(N) 669,069
(E) 2,427,176

BOTTOM HOLE
COORDINATES

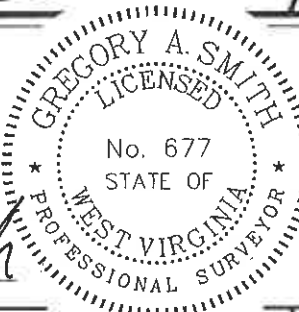
(N) 668,841
(E) 2,426,261



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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S.
677

Gregory A. Smith



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

DATE APRIL 19, 20 06

OPERATORS WELL NO. HEDRICK NO. 1

API WELL NO. 47-071-00019
STATE COUNTY PERMIT

MINIMUM DEGREE
OF ACCURACY

1 / 200

FILE NO. 5756P1 (194-39)

SCALE 1" = 2000'

PROVEN SOURCE
OF ELEVATION

DGPS (SUBMETER MAPPING GRADE)

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



WELL TYPE: OIL ☐ GAS ☒ LIQUID INJECTION ☐ WASTE DISPOSAL ☐ IF "GAS" PRODUCTION ☒ STORAGE ☐ DEEP ☒ SHALLOW ☐

LOCATION:

ELEVATION 2,372' WATERSHED SENECA CREEK

DISTRICT UNION COUNTY PENDLETON QUADRANGLE WHITMER 7.5'

SURFACE OWNER JOE K. HEDRICK, ET UX

ACREAGE 603±

ROYALTY OWNER JOE K. HEDRICK, ET AL

LEASE ACREAGE 320 ACRE± UNIT

PROPOSED WORK:

LEASE NO.

DRILL ☒ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD

FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG ☐ OTHER ☐

PHYSICAL CHANGE IN WELL (SPECIFY)

TARGET FORMATION ORISKANY

ESTIMATED DEPTH 6,500'

WELL OPERATOR T&F EXPLORATION, L.P.

DESIGNATED AGENT THOMAS DUNN

ADDRESS 186 SOUTH KANAWHA STREET
BUCKHANNON, WV 26201-2319

ADDRESS 186 SOUTH KANAWHA STREET
BUCKHANNON, WV 26201-2319

COUNTY NAME PEN

PERMIT 0019

WR-35
Rev (5-01)

DATE: March 2, 2007
API #: 47-071-00019

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

Farm name: Joe K. Hedrick, et ux Operator Well No.: #1
LOCATION: Elevation: 2,372' Quadrangle: Whitmer 7.5'
District: Union County: Pendleton
Latitude: 1960 Feet South of 38 Deg. 50 Min. 00 Sec.
Longitude 160 Feet West of 79 Deg. 30 Min. 00 Sec.

Company: T&F Exploration, LP

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>186 South Kanawha Street</u>	<u>20"</u>	<u>10'</u>	<u>10'</u>	
<u>Buckhannon, WV 26201</u>	<u>16"</u>	<u>35'</u>	<u>35'</u>	
Agent: <u>Thomas B. Dunn</u>	<u>11-3/4"</u>	<u>365'</u>	<u>365'</u>	<u>CTS</u>
Inspector: <u>Craig Duckworth</u>	<u>8-5/8"</u>	<u>1040'</u>	<u>1040'</u>	<u>CTS</u>
Date Permit Issued: <u>July 24, 2006</u>	<u>4-1/2"</u>	<u>6600'</u>	<u>6600'</u>	<u>135 sx</u>
Date Well Work Commenced: <u>August 23, 2006</u>				
Date Well Work Completed: <u>September 27, 2006</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): <u>6,688'</u>				
Fresh Water Depth (ft.): <u>100', 240', 546'</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.):				

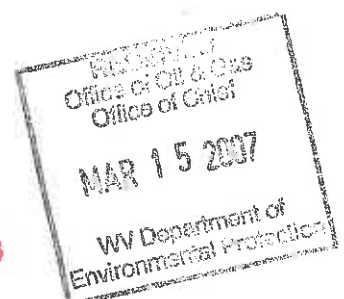
OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) 6,676'
Gas: Initial open flow 2.7 MMCF/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 2750 psig (surface pressure) after 20 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.

Signed: Thomas B. Dunn
By: Thomas B. Dunn
Date: March 13, 2007



JAN 09 2009

Well Log

Devonian Shale	0 - 6,028'
Tully LS	6,028' - 6,055'
Shale	6,055' - 6,348'
U Marcellus	6,348' - 6,394'
Purcell LS	6,394' - 6,460'
L. Marcellus	6,460' - 6,535'
Onondaga LS	6,535' - 6,555'
Hunternville Chert	6,594' - 6,615'
Needmore Shale	6,615' - 6,676'
Oriskany LS	6,676' - TD (6,688')

Well completed as natural producer.