

**JOSEPH LEASE**  
**168 ACRES ±**  
**WELL NO. 1**

LONG. 80°49'19.9"      8,600'      LATITUDE 39°22'30"

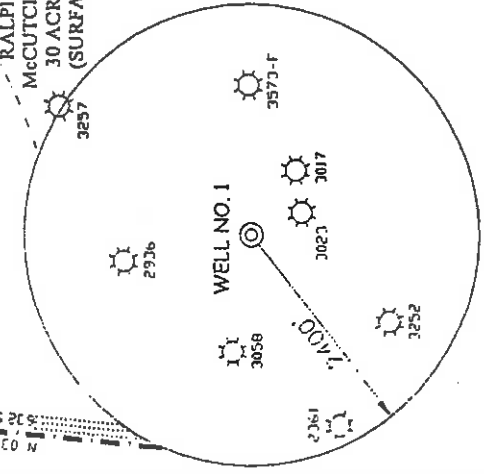
LONGITUDE 80°47'30"      12,480'

HARRY & BILLIE  
 IIOLMES  
 132.61 ACRES±  
 (SURFACE)

MICHAEL  
 DUFFELMEYER AND  
 JENNINGS GOLDSMITH  
 70.45 ACRES±  
 (SURFACE)

WELL NO. 1  
 STATE PLANE  
 COORDINATES  
 (N) 308,920  
 (E) 1,626,055

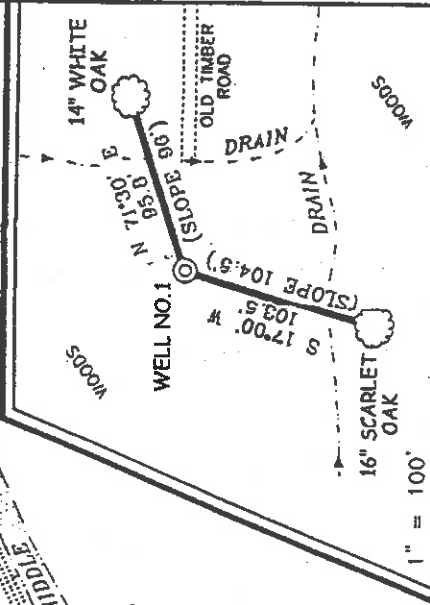
RALPH P. McCUTCCHAN II  
 67.55 ACRES±  
 (SURFACE)



**NOTES ON SURVEY**

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH W/ NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 2/05/04.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 161 ON PAGE 590 AND DEED BOOK 207 ON PAGE 466.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN FEBRUARY, 2004.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

**REFERENCES**



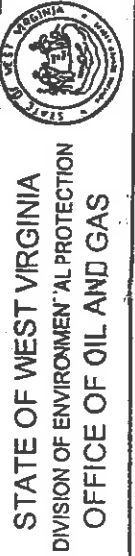
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S.  
 677  
*Gregory A. Smith*



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

DATE FEBRUARY 13, 2004  
 OPERATORS WELL NO. JOSEPH NO. 1  
 API WELL NO. 47  
 STATE WV COUNTY PERMIT NO. 04810



MINIMUM DEGREE OF ACCURACY 1/200  
 FILE NO. 5446P1 (160-34)  
 SCALE 1" = 500'  
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE)

WELL TYPE: OIL  GAS  INJECTION  WASTE DISPOSAL  \*GAS\* PRODUCTION  STORAGE  DEEP  SHALLOW  X

LOCATION: ELEVATION 798'      WATERSHED TRIBUTARY OF MIDDLE ISLAND CREEK  
 DISTRICT WEST UNION      COUNTY DODDRIDGE  
 SURFACE OWNER RALPH P. McCUTCCHAN II  
 ROYALTY OWNER N. A. JOSEPH HEIRS ET AL

PROPOSED WORK:  
 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  X PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER   
 PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION BIG INJUN ESTIMATED DEPTH 2,000'

WELL OPERATOR INTERSTATE PRODUCTION COMPANY      DESIGNATED AGENT ROGER A. MURRAY  
 ADDRESS 118 EAST MAIN STREET      ADDRESS 118 EAST MAIN STREET  
 BRIDGEPORT, WV 26330      BRIDGEPORT, WV 26330

0000      4810

(William 92 606)

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

*MP*

Well Operator's Report of Well Work

Farm name: Ralph P. McCutchan II

Operator Well No.: Joseph #1

LOCATION: Elevation: 798'

Quadrangle: West Union 7 1/2'

District: West Union  
Latitude: 12,480 Feet  
Longitude: 8,600 Feet

County: Doddridge  
South of 39 Deg. 22 Min. 30 Sec.  
West of 80 Deg. 47 Min. 30 Sec.

Company: INTERSTATE PRODUCTION COMPANY

Address	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
118 East Main Street Bridgeport, WV 26330	11 3/4"	44'	44'	
Agent: Roger A. Murray Inspector: Mike Underwood	8 5/8"	838'	838'	190 sx.
Date Permit Issued: 3/16/04	4 1/2"		1,919'	95 sx.
Date Well Work Commenced: 3/25/04				
Date Well Work Completed: 3/29/04				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 1,978				
Fresh Water Depth (ft.): 63'				
Salt Water Depth (ft.): 1,500'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.):				

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 1,807' - 1,830'  
 Gas: Initial open flow 21 MCF/d Oil: Initial open flow Bbl/d  
 Final open flow 196 MCF/d Final open flow show Bbl/d  
 Time of open flow between initial and final tests Hours  
 Static rock Pressure 118 psig (surface pressure) after 96 Hours

Second producing formation Keener Pay zone depth (ft) 1,757' - 1,767'  
 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

\* Comingled

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:

By: *[Signature]*  
 Roger A. Murray, Secretary/Treasurer  
 Date: 5/10/04

Checked by: *[Signature]*  
 MAY 17 2004  
 WV Department of Environmental Protection

0000 4810  
 JUN 10 4 2004

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
2 Stage Frac					
Big Injun	1,807' - 1,830'	16 holes	20,000# sand	265 Bbl. SLF	
Keener	1,757' - 1,767'	14 holes	19,000# sand	207 Bbl. SLF	
Sand & Shale	Gray	Med./Hard	10	40	
Sand	Gray	Hard	40	84	FW @ 63'
RR & Shale	Red/Gray	Med.	84	108	
Sand	Gray	Hard	108	148	
Sand, Shale, RR	Gray/Red	Med.	148	279	
RR/Shale	Red	Med.	279	291	
Sand, Shale	Gray	Med.	291	590	
RR & Shale	Red/Gray	Soft/Med.	590	682	
Sand	Gray	Hard	682	689	
Shale	Gray	Med.	689	706	
Sand	Gray	Hard	706	712	
Shale	Gray	Med/Soft	712	750	
RR & Shale	Red/Gray	Med/Soft	750	781	
Sand & Shale	Gray	Med.	781	1470	
Sand	Gray	Med./Hard	1470	1554	Hole damp @ 1500'
Sand/Shale	Gray	Med.	1554	1642	
Little Lime	Gray	Hard	1642	1658	
Sand/Shale	Gray	Med.	1658	1677	
Big Lime	Gray	Hard	1677	1770	
Keener	Gray	Hard	1770	1810	
Big Injun	Gray	Hard	1810	1828	
Sand/Shale	Gray	Hard	1828	1978	
Total Depth					Gas Check @ DC 21 mcf