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# MOUNT SALEM REVIVAL LEASE

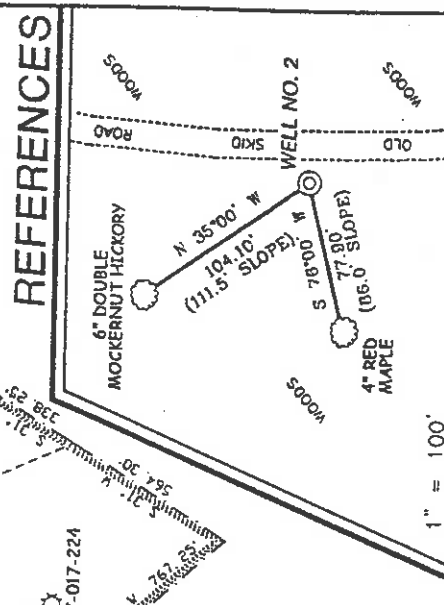
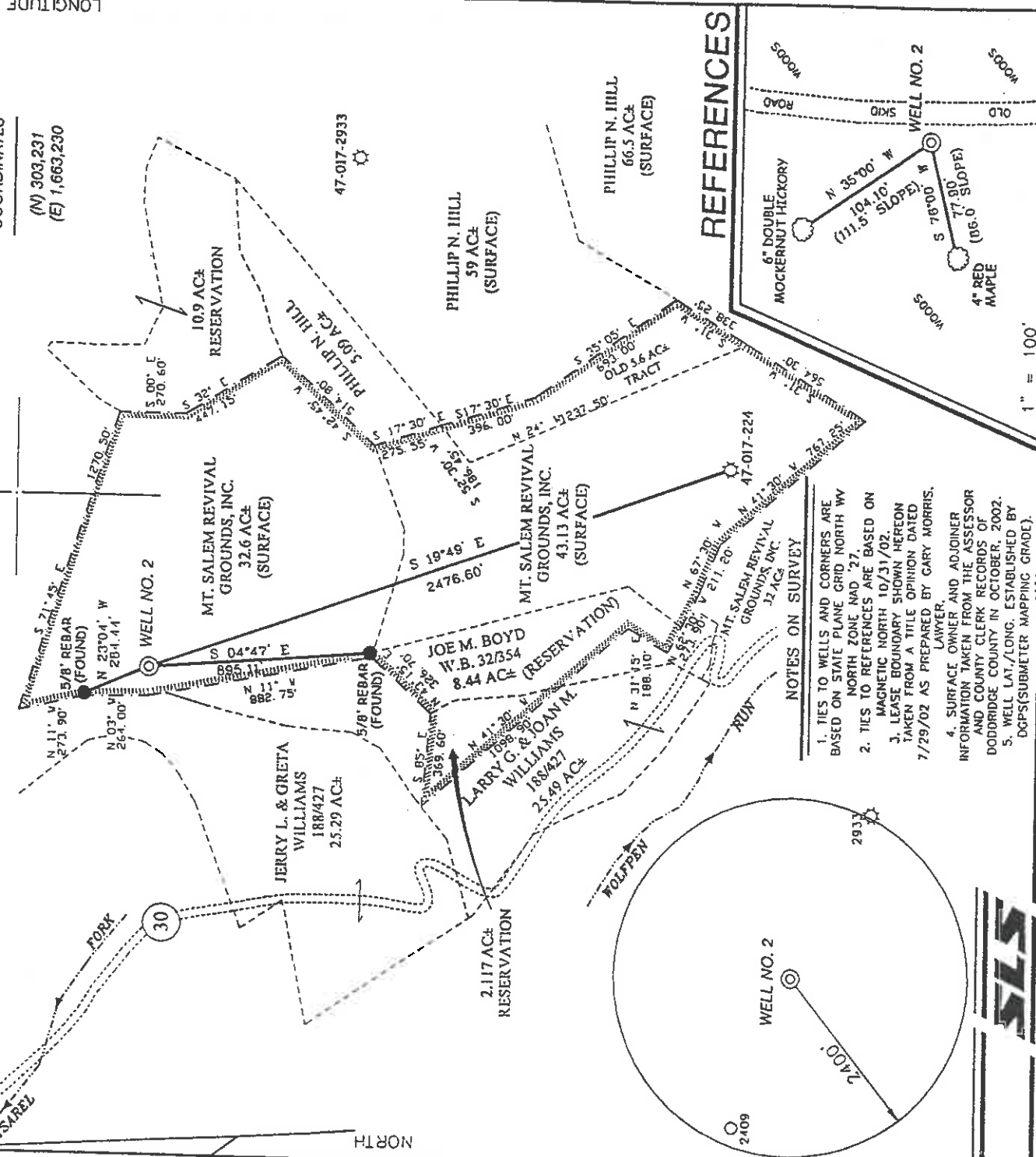
## 81.75 ACRES ±

### WELL NO. 2

JIM C. HAMMER CO.  
65 AC±  
(SURFACE)

WELL NO. 1  
STATE PLANE  
COORDINATES  
(N) 303,231  
(E) 1,663,230

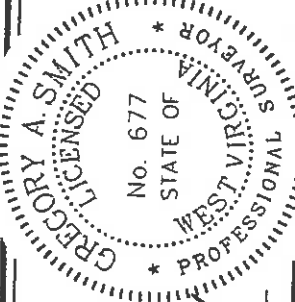
LONG. 80°41'25.8"  
LAT. 39°19'35.1"  
LONGITUDE 80°40'00"



- NOTES ON SURVEY**
1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WY NORTH ZONE NAD '27.
  2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 10/31/02.
  3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A TITLE OPINION DATED 7/29/02 AS PREPARED BY GARY MORRIS, LAWYER.
  4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN OCTOBER, 2002.
  5. WELL LAT./LONG. ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).

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*



MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 5093P1 (135-24)  
PROVEN SOURCE SCALE 1" = 600'  
TOP OF KNOB ELEVATION = 1,437'

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

LOCATION : ELEVATION 1,255' WATERSHED GLADE RUN OF FLINT RUN COUNTY DODDRIDGE QUADRANGLE SMITHBURG 7.5  
DISTRICT GRANT COUNTY DODDRIDGE ACREAGE 32.6±  
SURFACE OWNER MT. SALEM REVIVAL GROUNDS, INC. LEASE ACREAGE 81.75±  
ROYALTY OWNER MT. SALEM REVIVAL GROUNDS, INC. LEASE NO. \_\_\_\_\_  
PROPOSED WORK :  
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 GORDON  
ESTIMATED DEPTH 2900'

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN ADDRESS 22 GARTON PLAZA WESTON, WV 26452  
COUNTY NAME Dodd PERMIT 4719  
DATE NOVEMBER 11 OPERATORS WELL NO. 2 API WELL NO. 47-17 STATE 47 COUNTY 17 PERMIT 04719



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

(SMITHURD - FLINT - SCALIA FIRM)

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

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Well Operator's Report of Well Work

Farm Name: MT. SALEM REVIVAL GROUNDS, INC.

Operator Well No. : MT. SALEM REVIVAL #2

LOCATION: Elevation: 1255'

Quadrangle: WEST UNION

District: WEST UNION

County: DODDRIDGE

Latitude: 2,500 Feet South of 39 Deg. 20 Min. 00 Sec.

Longitude: 6,730 Feet West of 80 Deg. 40 Min. 00 Sec.

Company: KEY OIL COMPANY  
22 GARTON PLAZA  
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD  
Permit Issued: 12/16/02  
Well Work Commenced: 01/25/03  
Well Work Completed: 01/28/03

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth ( feet ) 3115'  
Fresh water depths ( ft ) 230', 741'  
Salt water depths ( ft ) 1345'

Is coal being mined in area ( Y / N )? N  
Coal Depths ( ft ) : NONE

OPEN FLOW DATA

RECEIVED  
Office of Oil & Gas  
Permitting  
FEB 27 2003  
WV Department of  
Environmental Protection

Blue Monday  
Keener  
Injun

Producing formation Gordon  
Gas: Initial open flow 119 MCF / d Oil: MCF / d  
Final open flow 1,061 MCF / d  
Time of open flow between initial and final tests N/A  
Static rock pressure 400 psig ( surface pressure ) after 96 Hours

2068' - 2110'  
2170' - 2182'  
2320' - 2380'  
2912' - 2964'

Second producing formation Commingled  
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 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.

For: KEY OIL COMPANY

By: *Jan E. Chapman*

Date: February 9, 2003

458 1 2 4 3  
PRESIDENT

Dodd 4719

Mt. Salem Revival #2 (47-017 -4719)  
 Three Stage Foam Frac - B.J. Services

1 <sup>st</sup> Stage:	Gordon ( 12 holes ) ( 2869' to ' to 2883' )	60 Quality Foam. 500 gal. 15% HCL. 35,000# 20/40 sand, 425,000 SCF N2, 535 bbis foam.
2 <sup>nd</sup> Stage:	Big Injun ( 20 holes ) ( 2214' to 2304' ) Keener ( 8 holes ) ( 2172' to 2180' )	60 Quality Foam. 500 gal 15% HCL. 50,000# 20/40 sand, 520,000 SCF N2, 585 bbis foam.
3 <sup>rd</sup> Stage	Blue Monday (20 holes ) ( 2071' to 2106' )	60 Quality Foam. 500 gal. 15% HCL. 45,000# 20/40 sand, 520,000 SCF N2, 655 bbis foam.

WELL LOG

KB-GL	0	10	
Fill	10	15	
Sand & Shale	15	40	
Sand	40	78	
Red Rock	78	90	
Sand & Shale	90	120	
Red Rock	120	130	
Sand	130	150	
Sand & Shale	150	325	Damp @ 230'
Red Rock	325	403	
Sand & Shale	403	535	
Red Rock	535	545	
Sand & Shale	545	873	Damp @ 741'
Red Rock	873	912	
Sand & Shale	912	1414	1" water @ 1345'
Sand	1414	1507	
Sand & Shale	1507	2050	
Little Lime	2050	2063	
Shale	2062	2068	
Blue Monday	2068	2110	<u>Gas Checks</u>
Big Lime	2110	2170	2011' - Odor
Keener	2170	2182	2263' - Odor
Shale & Limestone	2182	2212	3115' - 119 Mcf
Big Injun	2212	2310	
Sand & Shale	2310	2432	
Weir	2432	2512	
Sand & Shale	2512	2638	
Berea	2638	2664	
Siltstone & Shale	2664	2838	
Gordon	2838	2934	
Shale	2934	3115	
TD	3115		