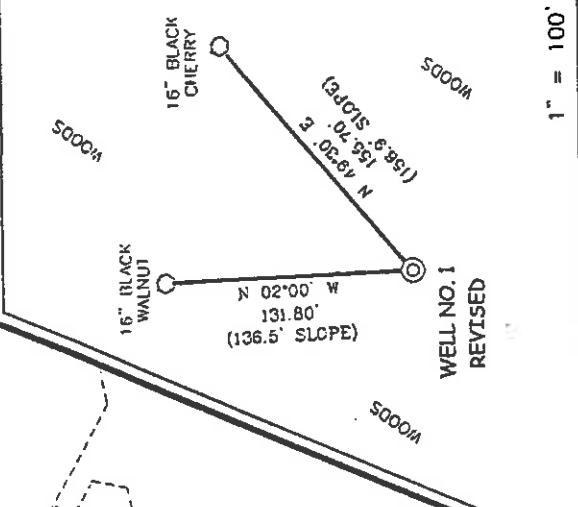


W.S. STUART LEASE 128 ACRES ± WELL NO. 1 REVISED

LONG. 80°46'33.6" LATITUDE 39°17'30"
LAT. 39°17'18.5" LONGITUDE 80°45'00"

TAX PARCELS	OWNER
102	HELEN BUFF ET AL
103	HELEN BUFF ET AL
104	HELEN DUFF ET AL
105	HELEN BUFF ET AL
126	HELEN BUFF ET AL
127	HELEN BUFF ET AL
128	HELEN BUFF ET AL
129	HELEN BUFF ET AL
166	HELEN BUFF ET AL
167	HELEN BUFF ET AL
213	HELEN BUFF ET AL
214	HELEN BUFF ET AL
215	HELEN BUFF ET AL
216	HELEN BUFF ET AL
217	HELEN BUFF ET AL

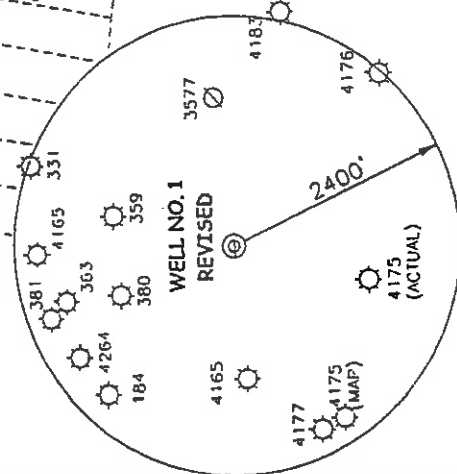
REFERENCES



1" = 100'

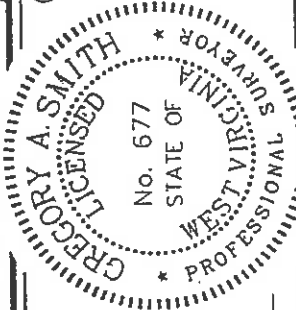
NOTES ON SURVEY

- TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
- TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 06/05/01.
- LEASE BOUNDARY DOES NOT FALL WITHIN THE SCOPE OF THIS PLAT.
- SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN APRIL, 2001.
- WELL LAT./LONG. ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).
- STREETS AND AVENUES AS SHOWN HERON SOUTH OF AND INCLUDING ORCHARD STREET ARE UNDEVELOPED. ACCESS ROADS THAT ARE EXISTING IN THE VICINITY OF THE PROPOSED WELL DO NOT FALL WITHIN THE STREETS AS DESIGNATED ON THE PLAT "STUART ADDITION TO THE TOWN OF WEST UNION".



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 ENVIRONMENTAL PROTECTION.

P.S. *Gregory A. Smith*
677



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

DATE JUNE 5 OPERATORS WELL NO. W.S. STUART NO.1 REVISED
API WELL NO. 47-017-04607 PERMIT
STATE COUNTY

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4729PJM (109-5)
PROVEN SOURCE OF ELEVATION BENCHMARK ELEVATION 805' SCALE 1" = 200'

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

LOCATION : ELEVATION 1073' WATERSHED MIDDLE ISLAND CREEK
DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'
SURFACE OWNER HELEN BUFF ET AL (LOTS 270 TO 278) ACREAGE LOTS STUART ADDITION
ROYALTY OWNER W.S. STUART HEIRS LEASE ACREAGE 128 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 ALEXANDER
ESTIMATED DEPTH 5600' ESTIMATED DEPTH 5600'

WELL OPERATOR KEY OIL COMPANY, INC. DESIGNATED AGENT JAN CHAPMAN
ADDRESS 22 GARTON PLAZA WESTON, WV 26452

6-6 99

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

Reviewed AKB

Well Operator's Report of Well Work

Farm name: W. S. Stuart Operator Well No.: 1

LOCATION: Elevation: 1073 Quadrangle: West Union 7.5'

District: West Union County: Doddridge
Latitude: 1130 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 7380 Feet West of 80 Deg. 45 Min. 00 Sec.

Company: Key Oil Company

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>22 Garton Plaza</u>	<u>8-5/8</u>	<u>1082'</u>	<u>1082'</u>	<u>336</u>
<u>Weston, WV 26452</u>	<u>4-1/2</u>		<u>531'</u>	<u>613</u>
Agent: <u>Jan Chapman</u>				
Inspector: <u>Mike Underwood</u>				
Date Permit Issued:				
Date Well Work Commenced: <u>07-27-01</u>				
Date Well Work Completed: <u>07-31-01</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary xxx Cable Rtg				
Total Depth (feet): <u>5418' RTD</u>				
Fresh Water Depth (ft.): <u>140'</u>				
Salt Water Depth (ft.): <u>None</u>				

Is coal being mined in area (N/Y)? No

Coal Depths (ft.):

Alexander
Benson
3rd Riley

Producing formation Riley Pay zone depth (ft) 4460'-4487'
Gas: Initial open flow 119 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1602 MCF/d Final open flow Show Bbl/d
Time of open flow between initial and final tests 245 Hours
Static rock Pressure 1650 psig (surface pressure) after 96 Hours
Speechly 3416'-3423'

Second producing formation Warren Pay zone depth (ft) 3273'-3378'
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

*All Formations Co-mingled.

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: Key Oil Company

By: [Signature] President
Date: 9-11-01

Dodd 4607

SEP 21 2001

TREATMENT:

Stage #1 Alexander (5167'-5230') 16 Holes: 500 GA; 60,000# 20/40 Sand; 550,000 SCF N₂ & 815 Bbls. 60 Quality Foam

Stage #2 Benson & 3rd Riley (4906'-08' & 4822') 14 Holes: 750 GA, 40,000# 20/40 Sand; 417,000 SCF N₂ & 621 Bbls. 60 Quality Foam

Stage #3 Riley (4460'-4485') 13 Holes: 750 GA, 5,000# 80/100 Sand; 35,000# 20/40 Sand; 448,000 SCF N₂ & 651 Bbls. 60 Quality Foam

Stage #4 Speechly & Warren (3419'-20' & 3274'-3376') 13 Holes: 750 GA, 5,000# 80/100 Sand; 45,000# 20/40 Sand; 502,000 SCF N₂ & 665 Bbls. 60 Quality Foam

FORMATIIONS:

Fill	0	109	
Sd	109	140	
RR & Sh	140	160	
Sd	160	210	
Sd & Sh	210	430	
RR & Sh	430	460	
Sd & Sh	460	584	
Sd	584	592	
Sd & Sh	592	695	
Sh & RR	695	757	
Sd & Sh	757	1130	
Sd	1130	1170	
Sh & RR	1170	1859	
Sd	1859	1890	
Sd & Sh	1890	2058	
L. Lime	2058	2120	
Big Lime	2120	3315	
Injun	3315	3375	
Sd & Sh	3375	4090	
Warren	4090	4190	
Sd & Sh	4190	4510	
Balltown	4510	4550	
Sd & Sh	4550	4930	
Riley	4930	4935	
Sd & Sh	4935	5200	
Benson	5200	5260	
Sd & Sh	5260	5418	
Alexander			
Sd & Sh			
RTD			

Water @ 140' - 1/2"

Gas Tests:

1890' - Odor Oil.
1921' - Odor Gas
2001' - Odor Gas
3322' - 162 Mcf
4120' - 162 Mcf
4510' - 158 Mcf
4925' - 158 Mcf
5206' - 158 Mcf
5418' - 119 Mcf