

LONG. 80°50'27" 2,120'
LATITUDE 39°12'30" 2898
LONGITUDE 80°50'00" 4,450'
LAT. 39°11'47"

BARTEE LEASE 57.85 ACRES ± WELL NO. 1

J. PATRICK SHAVER
MARVIN & TINA OSBORNE
57.85 AC. ± (SURFACE)
BARTEE #1
N. PATRICK SHAVER
M. OSBORNE
N. LEGGETT

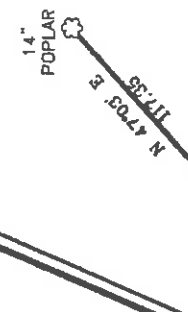
18" TWIN WHITE OAK BEARS
N 05°58' E 43.85'
N 21°30' E 165.00'
N 25°00' E 198.00'
N 30°00' E 185.00'
N 20°15' E 207.90'
N 39°00' E 198.00'
N 50°00' E 118.00'
N 76° E N 76°15' E N 76°15' E
118.00' 350.00' 350.00'

J. PATRICK SHAVER

M. OSBORNE

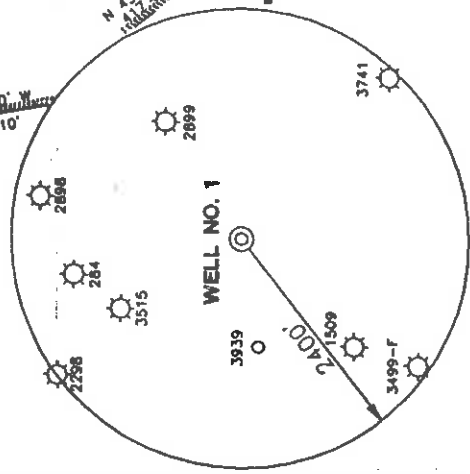
JOHN M. GRAY

REFERENCES



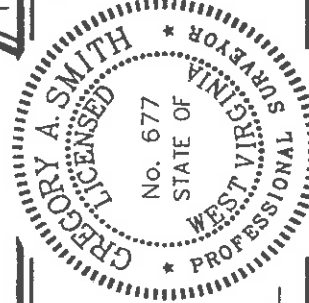
NOTES ON SURVEY

- LEASE BOUNDARY SHOWN HEREON TAKEN FROM A TITLE REPORT DATED 11/23/98 AS PREPARED BY RICHARD M. REDDECLIFF.
- SURFACE OWNERS AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF GILMER COUNTY IN NOVEMBER, 1998.
- WELL LAT./LONG. ESTABLISHED BY FIELD SURVEY ON 1/5/99. AND SCALED ON TOPO.



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 ENERGY.

P.S. *Gregory A. Smith*
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JANUARY 6, 19 99
OPERATORS WELL NO. BARTEE NO. 1
API WELL NO. 47-017 - 04499
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4132P1 (69-65)
PROVEN SOURCE OF ELEVATION SCALE 1" = 500'
TOP OF KNOB ELEVATION 1209'

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

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

LOCATION : ELEVATION 1060' WATERSHED TAYLOR DRAIN

DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5' ACREAGE 57.85

SURFACE OWNER MARVIN W. OSBORNE LEASE ACREAGE 57.85

ROYALTY OWNER JUANITA NUTTER BARTEE ET AL LEASE NO. _____

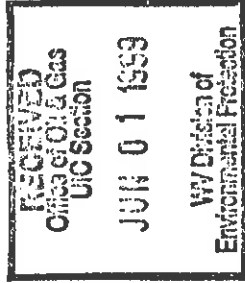
PROPOSED WORK :
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5600'

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

COUNTY NAME DODD PERMIT 4499

6-6-133

WR-35



11 - Jan - 99
API # 47 - 17 - 4499

Reviewed [Signature]

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

Well Operator's Report of Well Work

Farm name: OSBORNE, MARVIN W.

Operator Well No. : BARTEE #1

LOCATION: Elevation: 1,060.00

Quadrangle: OXFORD

District: SOUTHWEST

County: DODDRIDGE

Latitude: 4450 Feet South of 39 Deg. 12 Min. 30 Sec.

Longitude: 2120 Feet West of 80 Deg. 50 Min. 00 Sec.

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 01/11/99
Well Work Commenced: 01/18/99
Well Work Completed: 01/22/99

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5322'
Fresh water depths (ft) 76'
Salt water depths (ft) NONE

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

OPEN FLOW DATA

Warren
Speechley
Balltown
Rileys
Benson
Eik

Producing formation: Alexander
Gas: Initial open flow No Show MCF / d Pay zone depth (ft) 5011' - 5092'
Final open flow 1,579 MCF / d Oil: Initial open flow 0 Bbl / d
Time of open flow between initial and final tests N/A Oil: Final open flow show Bbl / d
Static rock pressure 1900 psig (surface pressure) after 96 Hours

Second producing formation Commingled
Gas: Initial open flow _____ MCF / d Pay zone depth (ft) _____
Final open flow _____ MCF / d Oil: Initial open flow _____ Bbl / d
Time of open flow between initial and final tests _____ Oil: Final open flow _____ Bbl / d
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: [Signature]
Date: May 6, 1999

PRESIDENT

Dodd 4499

JUN 14 1999

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	129'	129'	70 sks To Surface
8 5/8"	1892'	1892'	545 sks To Surface
4 1/2"	5224'	5224'	460 sks
2 3/8"		5019'	

Bartee #1 (47-017 - 4499)
Four Stage Foam Frac - Halliburton

1st Stage: Alexander (13 holes) (5039.25' to 5081.50') 60 Quality Foam. 500 gal. 15% HCL.
 Elk (3 holes) (4969' to 4969.50") 60,000# 20/40 sand, 550,000 SCF N2,
 808 bbls foam.

2nd Stage: Benson (7 holes) (4772.75' to 4774.25') 60 Quality Foam. 750 gal 15% HCL.
 Third Riley (2 holes) (4706.75' & 4707') 40,000# 20/40 sand, 417,000 SCF N2,
 Second Riley (4 holes) (4609' to 4609.75') 614 bbls foam.

3rd Stage: Riley (12 holes) (4369' to 4374.50') 60 Quality Foam. 750 gal 15% HCL.
 5,000# 80/100 sand, 45,000# 20/40 sand,
 502,000 SCF N2, 740 bbls foam.

4th Stage: Balltown (6 holes) (3591.25' to 3746.75') 60 Quality Foam. 1,000 gal 15% HCL.
 Speechley (3 holes) (3339.25' to 3339.75') 5,000# 80/100 sand, 45,000# 20/40 sand,
 Warren (5 hole) (3212.75' to 3227') 502,000 SCF N2, 684 bbls foam.

WELL LOG

	0	14	14
KB & Clay	14	22	22
Shale	22	76	76
Shale & Red Rock	76	104	104
Red Rock	104	118	118
Sand & Shale	118	250	250
Red Rock & Shale	250	370	370
Sand & Shale	370	677	677
Shale & Red Rock	677	715	715
Sand & Shale & Red Rock	715	990	990
Sand	990	1027	1027
Sand & Shale	1027	1520	1520
Sand	1520	1581	1581
Sand & Shale	1581	1805	1805
Little Lime	1805	1322	1322
Shale	1822	1825	1825
Big Lime	1825	1863	1863
Big Injun	1863	1950	1950
Shale	1950	2110	2110
Weir	2110	2238	2238
Sand & Shale	2238	2521	2521
Gordon	2521	2538	2538
Shale & Sand	2538	3184	3184
Warren	3184	3234	3234
Shale	3234	3241	3241
Speechley	3241	3351	3351
Shale	3351	3540	3540
Balltown	3540	4274	4274
Shale	4274	4342	4342
Riley	4342	4386	4386
Shale	4386	4593	4593
Second Riley	4593	4616	4616
Shale	4616	4690	4690
Third Riley	4690	4722	4722
Shale	4722	4767	4767
Benson	4767	4780	4780
Shale	4780	4922	4922
Elk	4922	4974	4974
Shale	4974	5011	5011
Alexander	5011	5092	5092
Siltstone & Shale	5092	5322	5322
T.D.	5322		

1/2" H₂O @ 76'

Gas Checks

2502' - Odor
 3007' - No Show
 3195' - No Show
 3819' - No Show
 4352' - No Show
 4725' - No Show
 5001' - No Show