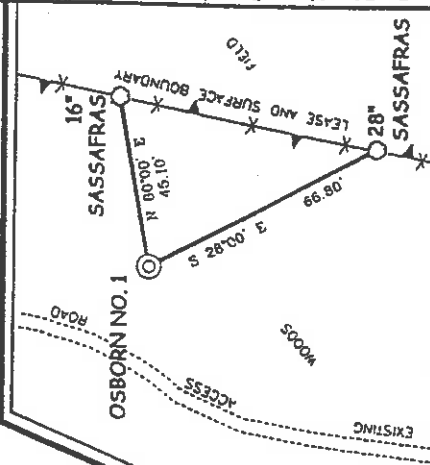


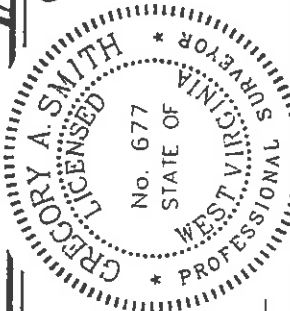
REFERENCES



NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 11/14/01.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A TITLE REPORT PREPARED BY GARY MORRIS, LAWYER.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN NOVEMBER, 2001.
5. WELL LAT./LONG. ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).

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



P.S. *Gregory A. Smith*
677

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

DATE NOVEMBER 27, 20 01
OPERATORS WELL NO. OSBORN NO 1
API WELL NO. 47-17-04716
STATE COUNTY PERMIT

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



MINIMUM DEPTH OF ACCURACY 1 / 200 FILE NO. 4902P1 (114-27)
PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 884'
SCALE 1" = 400'

WELL TYPE : OIL GAS INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW
LOCATION : ELEVATION 1110' WATERSHED LOWER RUN

DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'
SURFACE OWNER MANSFIELD L. AND DEBRA L. LEESON ACREAGE 67.5
ROYALTY OWNER MANSFIELD L. AND DEBRA L. LEESON ET AL LEASE ACREAGE 67.5
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 NOV 29 2002
ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452

County Name Dodd Permit 4716

133-57FK-B1str OK

LONG. 80°49'50.1" LAT. 39°10'13.1"

11.030'

FORM NOV 6

LONGITUDE 80°47'50"

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

AP

Well Operator's Report of Well Work

Farm Name: MANSFIELD L. AND DEBRA L. LEESON

Operator Well No. : OSBORN #1

LOCATION: Elevation: 1110'

Quadrangle: OXFORD

District: SOUTHWEST

County: DODDRIDGE

Latitude: 13,850 Feet South of 39 Deg. 12 Min. 30 Sec.

Longitude: 11,030 Feet West of 80 Deg. 47 Min. 30 Sec.

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

Agent: JAN CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 11/19/02
Well Work Commenced: 05/29/03
Well Work Completed: 06/03/03

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) _____ 5280'
Fresh water depths (ft) _____ 75'
Salt water depths (ft) _____ 1760'

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

OPEN FLOW DATA

Warren
Speechley
Balltown
Rileys
Benson
Elk

Producing formation _____ Alexander
Gas: Initial open flow _____ Odor _____ MCF / d
Final open flow 1,750 MCF / d
Time of open flow between initial and final tests _____ N/A
Static rock pressure 1750 psig (surface pressure) after 96 Hours

Second producing formation _____
Gas: Initial open flow _____ Commingled MCF / d
Final open flow _____ Commingled MCF / d
Time of open flow between initial and final tests _____
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

AUG 0 1 2003

By: *Jan Chapman*
Date: June 21, 2003

President

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	132'	132'	55 sks To Surface
8 5/8"	1903'	1903'	418 sks To Surface
4 1/2"	5209'	5209'	460 sks.

Oil & Gas Permitting
JUN 25 2003
WV Department of Environmental Protection

DODD 4716

Osborn #1 (47-017-4716)
Four Stage Foam Frac – Universal Well Services

1 st Stage:	Alexander (11 holes) (5071.50' to 5133') Elk (4 holes) (4940' to 4970')	60 Quality Foam Foam. 500 gal. 15% HCL., 60,000# 20/40 sand, 565,000 SCF N2, 814 bbls foam
2 nd Stage:	Benson (9 holes) (4813' to 4815') Third Riley (4 holes) (4734.50' to 4735.25')	60 Quality Foam Foam, 750 gal 15% HCl 30,000# 20/40 sand, 359,000 SCF N2, 523 bbls foam
3 rd Stage:	Riley (11 holes) (4389.75' to 4423.75') Balltown (4 holes) (3970' to 3996')	60 Quality Foam Foam, 1000 gal 15% HCl 5,000# 80/100 sand, 35,000# 20/40 sand, 448,000 SCF N2, 650 bbls foam
4 th Stage:	Speechley (9 holes) (3292.75' to 3374.75') Warren (4 holes) (3256.75' to 3265')	60 Quality Foam Foam, 750 gal 15% HCl 5,000# 80/100 sand, 45,000# 20/40 sand, 517,000 SCF N2, 729 bbls foam
KB	0	
Clay	10	
Sand	14	
Sand & Shale	14	
Red Rock & Shale	24	
Sand & Shale	65	
Sand	65	
Sand & Shale	114	
Red Rock & Sand & Shale	114	
Sand	140	
Sand & Shale	140	
Red Rock & Sand & Shale	200	
Sand & Shale	691	
Sand	740	
Sand & Shale	941	
Sand	1020	
Sand & Shale	1020	
Sand	1159	
Sand & Shale	1159	
Red Rock	1225	
Sand & Shale	1225	
Red Rock	1348	
Sand & Shale	1348	
Sand	1360	
Sand & Shale	1360	
Sand	1635	
Sand & Shale	1635	
Little Lime	1730	
Big Lime	1730	
Big Injun	1830	
Shale	1830	
Weir	1840	
Shale	1840	
Gordon	1944	
Shale	1944	
Warren	1993	
Shale	1993	
Speechley	2152	
Shale	2152	
Balltown	2276	
Shale	2276	
Balltown	2550	
Shale	2550	
Warren	2582	
Shale	2582	
Speechley	3220	
Shale	3220	
Balltown	3274	
Shale	3274	
Balltown	3283	
Shale	3283	
Balltown	3384	
Shale	3384	
Balltown	3578	
Shale	3578	
Balltown	4256	
Shale	4256	
Riley	4360	
Shale	4360	
Third Riley	4440	
Shale	4440	
Benson	4682	
Shale	4682	
Benson	4763	
Shale	4763	
Elk	4807	
Shale	4807	
Alexander	4821	
Shale	4821	
Alexander	4935	
Shale	4935	
Alexander	5012	
Shale	5012	
Alexander	5050	
Shale	5050	
TD	5154	
TD	5154	
TD	5280	
TD	5280	

WELL LOG

Damp @ 75'

1" stream water @ 1760'

Gas Checks

2073' – No Show
3203' – Odor
3612' – Odor
4428' – Odor
4800' – Odor
5012' – Odor
TD - Odor