

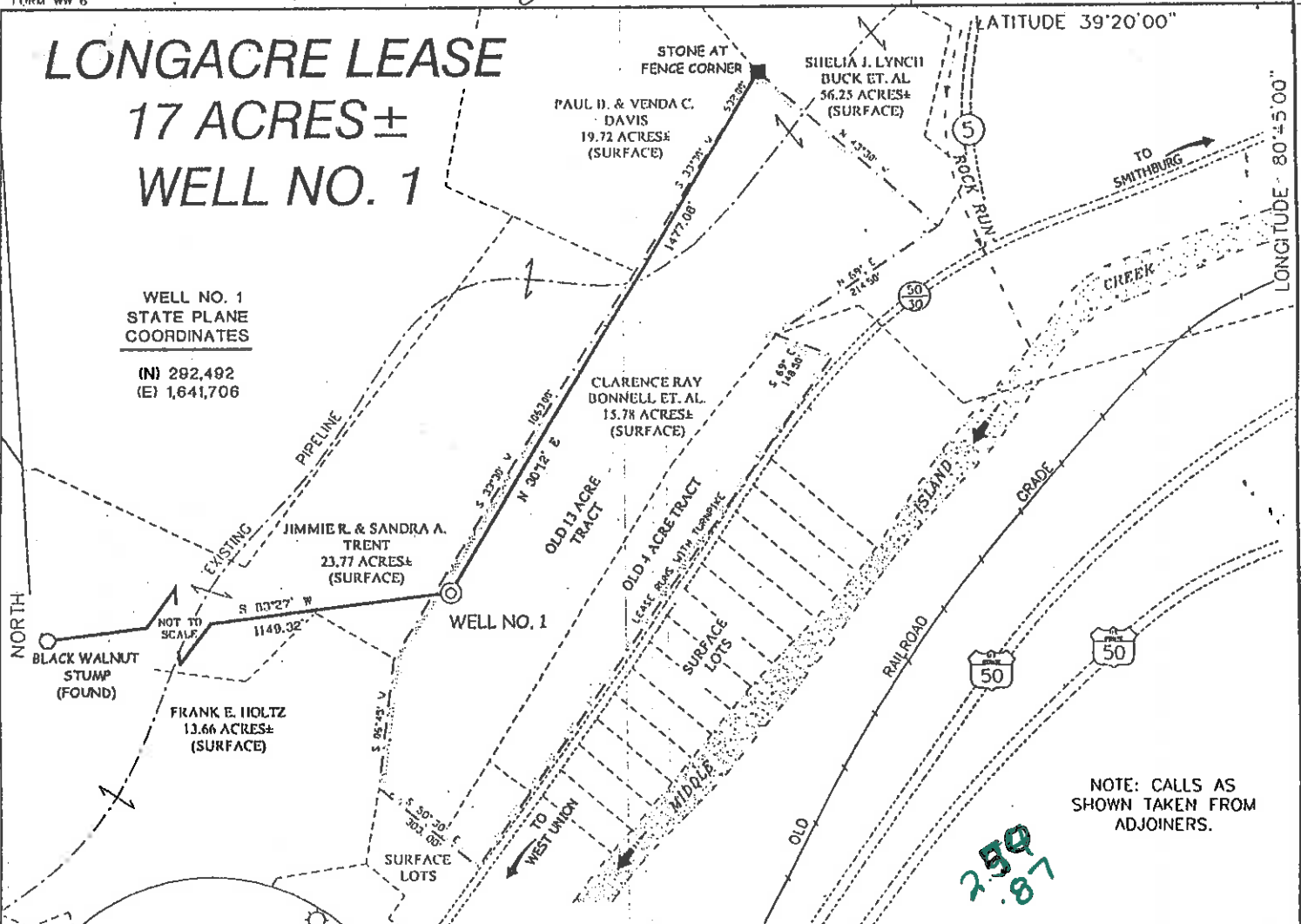
LONGACRE LEASE

17 ACRES± WELL NO. 1

WELL NO. 1 STATE PLANE COORDINATES

(N) 282,492
(E) 1,641,706

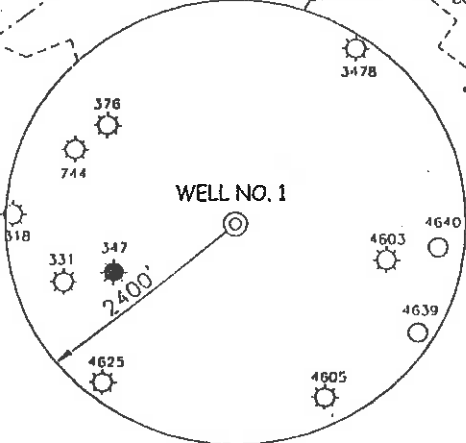
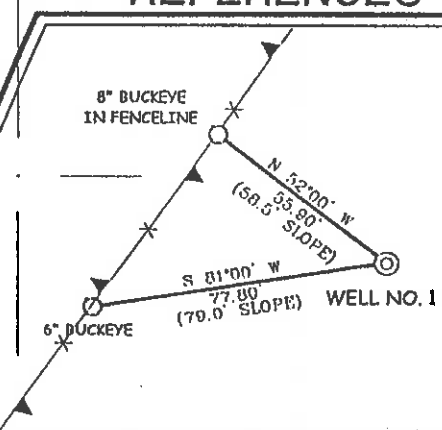
NORTH



NOTES ON SURVEY

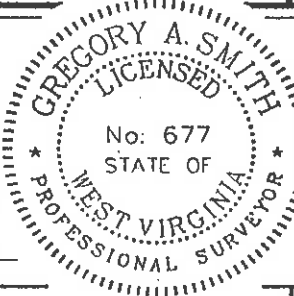
1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 6/10/02.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A TITLE OPINION DATED 4/19/02 AS PREPARED BY GARY MORRIS, LAWYER.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN JUNE, 2002.
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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JUNE 11, 20 02
 OPERATORS WELL NO. LONGACRE NO. 1
 API WELL NO. 47-17-04692
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 5033P1(126-02)
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1,235' SCALE 1" = 400'

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



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

LOCATION :
 ELEVATION 1013' WATERSHED MIDDLE ISLAND CREEK
 DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'

SURFACE OWNER DONALD MICHAELS ACREAGE 17
 ROYALTY OWNER FRANKLIN L. BUTLER AND KEY OIL CO. LEASE ACREAGE 17
 PROPOSED WORK : LEASE NO. _____

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 5,600'

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

6-6 99

JUL 19 2002

LONGITUDE 80°45'00" LAT. 39°17'46.1"

COUNTY NAME PERMIT 4692

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

MT

Well Operator's Report of Well Work

Farm Name: DONALD MICHAELS

Operator Well No. : LONGACRE #1

LOCATION: Elevation: 1013.00

Quadrangle: WEST UNION

District: WEST UNION County: DODDRIDGE
Latitude: 13,510 Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude: 4,580 Feet West of 80 Deg. 45 Min. 00 Sec.

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 07/15/02
Well Work Commenced: 08/07/02
Well Work Completed: 08/11/02
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5363'
Fresh water depths (ft) 114'
Salt water depths (ft) NONE

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
8 5/8"	1025'	1025'	230 sks To Surface
4 1/2"	5335'	5335'	485 sks

Office of Oil & Gas Permitting
DEC 04 2002
WV Department of Environmental Protection

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

OPEN FLOW DATA

Warren	3229' - 3282'
Speechley	3300' - 3390'
Rileys	4398' - 4827'
Benson	4882' - 4893'
Producing formation <u>Alexander</u>	Pay zone depth (ft) <u>5126' - 5220'</u>
Gas: Initial open flow <u>Odor</u> MCF / d	Oil: Initial open flow <u>0</u> Bbl / d
Final open flow <u>1,858</u> MCF / d	Oil: Final open flow <u>show</u> Bbl / d
Time of open flow between initial and final tests <u>N/A</u> Hours	
Static rock pressure <u>1820</u> psig (surface pressure) after <u>96</u> Hours	
Second producing formation <u>Commingled</u>	Pay zone depth (ft) _____
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: *[Signature]*
Date: September 3, 2002

JAN 17 2003

PRESIDENT

0000 4692

Longacre #1 (47-017 - 4692)
Four Stage Foam Frac – BJ Services

1 st Stage:	Alexander (16 holes) (5145' to 5216.75')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 815 bbls foam.
2 nd Stage:	Benson (6 holes) (4886.50' to 4887.75') Third Riley (8 holes) (4805.50' to 4812.25')	60 Quality Foam. 750 gal 15% HCL. 35,000# 20/40 sand, 390,000 SCF N2, 573 bbls foam.
3 rd Stage:	Riley (14 holes) (4432' to 4463.75')	60 Quality Foam 750 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 440,000 SCF N2, 651 bbls foam.
4 th Stage:	Speechley (5 holes) (3338' to 3381.25') Warren (8 holes) (3237.50' to 3272')	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 464,000 SCF N2, 593 bbls foam.

WELL LOG

KB-GL	0	10	
Fill	10	14	
Clay	14	20	
Sand & Shale	20	78	
Red Rock	78	98	
Sand	98	139	
Sand & Shale	139	230	Damp @ 114'
Sand	230	319	
Sand & Shale	319	434	
Sand	434	455	
Sand & Shale & Red Rock	455	525	
Sand	525	545	
Sand & Shale & Red Rock	545	755	
Sand	755	765	
Sand & Shale	765	1161	
Sand	1161	1191	
Sand & Shale	1191	1785	
Little Lime	1785	1830	
Big Lime	1830	1880	
Keener	1880	1918	
Big Injun	1918	1970	
Squaw	1970	1984	
Sand & Shale	1984	2154	
Weir	2154	2249	
Shale	2249	2352	
Berea	2352	2373	
Shale	2373	2556	
Gordon	2556	2614	
Shale	2614	3229	
Warren	3229	3282	
Shale	3282	3300	
Speechley	3300	3390	
Siltstone & Shale	3390	4398	
Riley	4398	4466	
Shale	4466	4744	
Third Riley	4744	4827	
Shale	4827	4882	
Benson	4882	4893	
Shale	4893	5126	
Alexander	5126	5220	
Sand & Shale	5220	5363	
T.D.	5363		

Gas Checks

1759' – No Show
2043' - Odor
2075' - 6/10 ^{ths} 2" w/water
2827' - Odor
3205' - Odor
3705' - Odor
4418' - Odor
4952' - Odor
5118' - Odor