

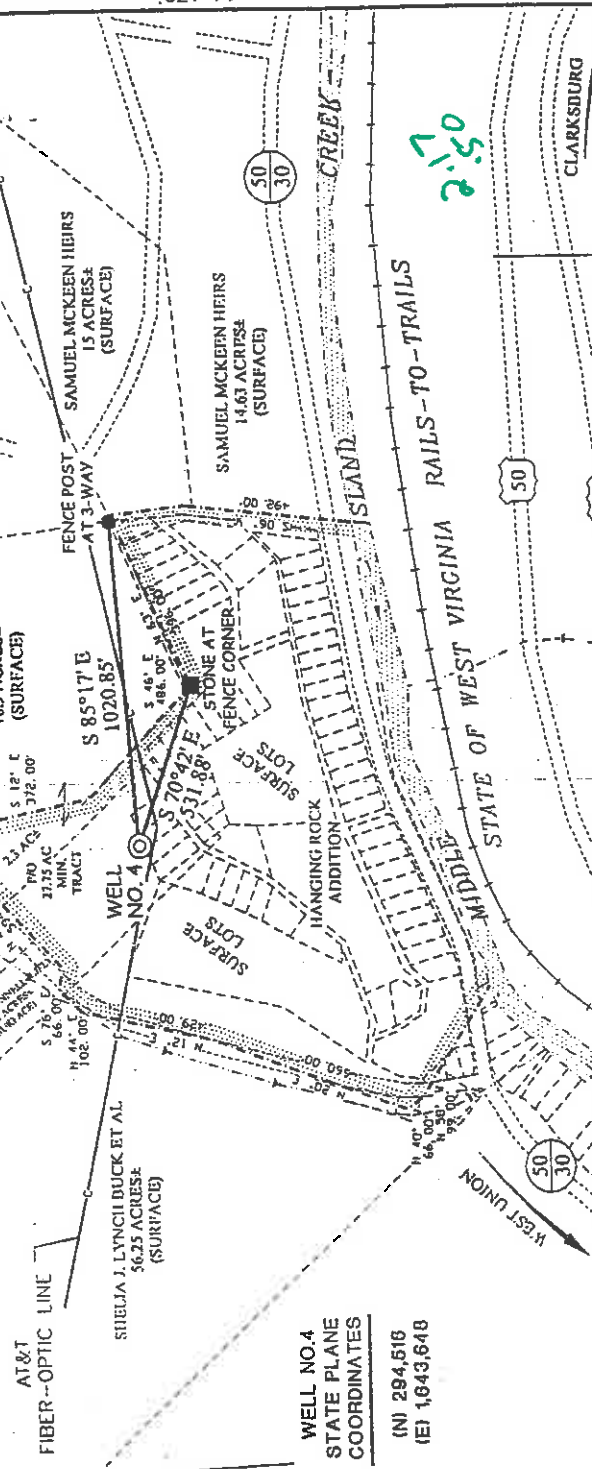
LONGACRE LEASE 38 ACRES ± WELL NO. 4

LAURA MAE POWELL
43.86 ACRES ±
(SURFACE)

LONG. 80°45'34.4" W

LATITUDE 39°20'00"

LONGITUDE 80°45'00"

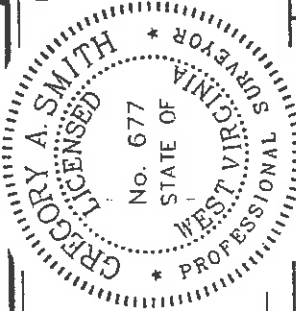
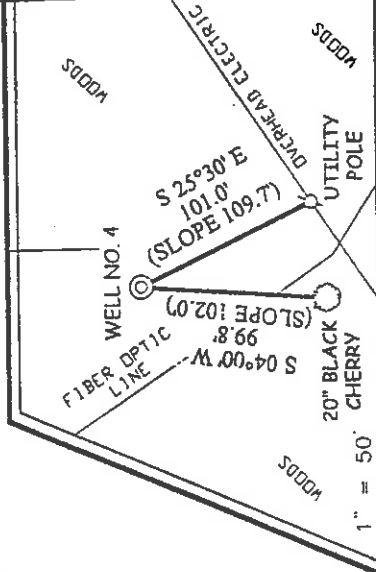


WELL NO. 4
STATE PLANE
COORDINATES
(N) 294,516
(E) 1043,648

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 8/23/02.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A TITLE OPINION DATED 5/19/02 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 PLAN 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

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 5033P4R (126-40)
PROVEN SOURCE SCALE 1" = 600'
OF ELEVATION BENCHMARK ELEVATION 833'

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

LOCATION : ELEVATION 1,002' WATERSHED ROCK RUN
DISTRICT WEST UNION COUNTY DODDRIDGE
SURFACE OWNER WILLIAM WHITEHILL
ROYALTY OWNER FRANKLIN L. BUTLER AND KEY OIL CO. ET AL

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 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

DODD COUNTY NAME

4699 PERMIT

6-6 (099)

5/13/04

LONG. 80°45'34.3" — 2.740'

LATITUDE 39°20'00"

LONGACRE LEASE 38 ACRES ± WELL NO. 4

LAURA MAE POWELL
43.86 ACRES ±
(SURFACE)

SHUELA J. LYNCHE DUCK ET AL
56.25 ACRES ±
(SURFACE)

RANZA E. AND SARAH J. GASKINS
18.7 ACRES ±
(SURFACE)

HUGH AND EARLDENE
SPENCER
18.9 ACRES ±
(SURFACE)

FENCE POST
AT 3-WAY
SAMUEL MCKEEN HEIRS
15 ACRES ±
(SURFACE)

TIANGING ROCK
ADDITION

MIN. TRACT

STONE AT
FENCE CORNER

AT&T
FIBER-OPTIC LINE

AT&T
FIBER-OPTIC LINE

WELL NO. 4

WELL NO. 4

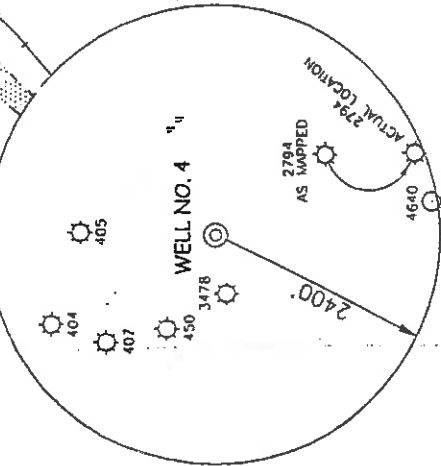
WELL NO. 4

WELL NO. 4

WELL NO. 4

WELL NO. 4

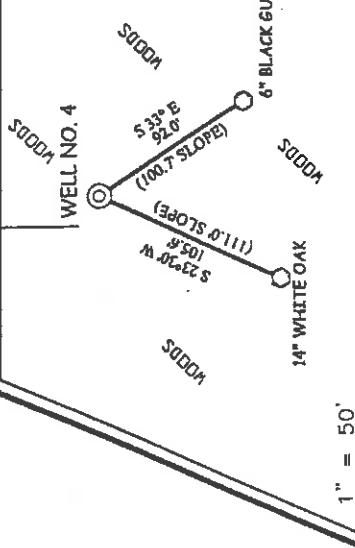
WELL NO. 4
STATE PLANE
COORDINATES
(N) 294,668
(E) 1,843,677



NOTES ON SURVEY

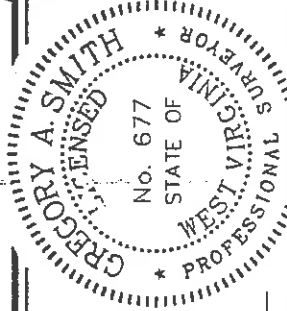
1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 7/31/02.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A TITLE OPINION DATED 5/19/02 AS PREPARED BY GARY MORRIS, LAWYER.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN JUNE, 2002.
5. WELL LAT./LONG. ESTABLISHED BY DCPS(SUBMETER MAPPING GRADE).

REFERENCES



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P.S. *Gregory A. Smith*
677



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

DATE AUGUST 8 20 02
OPERATORS WELL NO. LONGACRE NO. 4
API WELL NO. 47-17-17-04699
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 5033P4 (126-30)
PROVEN SOURCE TOP OF KNOB ELEVATION 1,235' SCALE 1" = 600'

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



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

LOCATION : ELEVATION 944' WATERSHED ROCK RUN

DISTRICT WEST UNION COUNTY DODDRIDGE

SURFACE OWNER WILLIAM WHITEHILL

ROYALTY OWNER FRANKLIN L. BUTLER AND KEY OIL CO. ET AL

PROPOSED WORK : QUADRANGLE WEST UNION 7.5' ACREAGE 5.31±
LEASE ACRES 38±
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

COUNTY NAME 0000 PERMIT 4699

LAT. 39.18077' LONG. 80.45000'

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

AP

Well Operator's Report of Well Work

Farm Name: WILLIAM WHITEHILL

Operator Well No. : LONGACRE #4

LOCATION: Elevation: 944.00

Quadrangle: WEST UNION

District: WEST UNION
Latitude: 11,350 Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude: 2,740 Feet West of 80 Deg. 45 Min. 00 Sec.

County: DODDRIDGE

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 09/05/02
Well Work Commenced: 09/16/02
Well Work Completed: 09/20/02

Verbal Plugging
Permission granted on: _____ Rig
Rotary X Cable _____
Total Depth (feet) 5305'
Fresh water depths (ft) 70'
Salt water depths (ft) NONE

Is coal being mined in area (Y / N)? N
Coal Depths (ft): 17' to 19' (2')

OPEN FLOW DATA

Warren
Speechley
Rileys
Benson

Producing formation: Alexander
Gas: Initial open flow Show MCF / d
Final open flow 2,627 MCF / d
Time of open flow between initial and final tests N/A

Static rock pressure 1880 psig (surface pressure) after 96 Hours

Second producing formation: Commingled

Gas: Initial open flow MCF / d
Final open flow MCF / d
Time of open flow between initial and final tests
Static rock pressure psig (surface pressure) after Hours

Pay zone depth (ft)

Oil: Initial open flow Bbl / d
Oil: Final open flow Bbl / d
Hours

Pay zone depth (ft)
Oil: Initial open flow Bbl / d
Oil: Final open flow Bbl / d
Hours

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	928'	928'	215 sks To Surface
4 1/2"	5254'	5254'	480 sks

Cementing
DEC 04 2002
VW Dept. of Environmental Protection

0000 4699

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORMED 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: *Sam Chapman*
Date: October 1, 2002

PRESIDENT

JAN 17 2003

Longacre #4 (47-017 - 4699)
 Four Stage Foam Frac - BJ Services

1 st Stage:	Alexander (15 holes) (5156' to 5232.75')	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) (4899.75' to 4901') Third Riley (7 holes) (4813.75' to 4831.50')	60 Quality Foam. 750 gal 15% HCL. 30,000# 20/40 sand, 370,000 SCF N2, 524 bbls foam.
3 rd Stage:	Riley (14 holes) (4417' to 4473.25')	60 Quality Foam 750 gal 15% HCL. 5,000# 80/100 sand, 30,000# 20/40 sand, 426,000 SCF N2, 603 bbls foam.
4 th Stage:	Speechley (7 holes) (3341' to 3384.25') Warren (6 holes) (3265.75' to 3276.50')	60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 464,000 SCF N2, 601 bbls foam.

WELL LOG

KB-GL	0	10	
Fill	10	14	
Sand	14	17	
Coal	17	19	
Sand & Shale & Red Rock	19	120	
Sand	120	160	
Sand & Shale	160	254	
Red Rock	254	280	
Sand & Shale	280	350	
Red Rock	350	408	
Sand & Shale & Red Rock	408	477	
Sand & Shale	477	654	
Shale & Red Rock	654	684	
Sand & Shale	684	1730	
Little Lime	1730	1745	
Sand & Shale	1745	1782	
Big Lime	1782	1880	
Keener	1880	1966	
Shale	1966	1968	
Big Injun	1968	2018	
Shale	2018	2158	
Weir	2158	2250	
Shale	2250	2362	
Berea	2362	2380	
Shale	2380	2564	
Gordon	2564	2623	
Shale	2623	3100	
Warren	3100	3144	
Shale	3144	3210	
Speechley	3210	3294	
Silt & Shale	3294	4409	
Riley	4409	4484	
Shale	4484	4807	
Third Riley	4807	4864	
Shale	4864	4896	
Benson	4896	4905	
Shale	4905	5138	
Alexander	5138	5236	
Sand & Shale	5236	5305	
T.D.	5305		

½" stream water @ 220'

Gas Checks

- 1725' - No Show
- 2010' - No Show
- 2542' - No Show
- 3170' - No Show
- 3925' - No Show
- 4364' - No Show
- 4805' - No Show
- 5056' - No Show