

NOTE: ALL PROPERTY AND LEASE INFORMATION
FURNISHED BY OPERATOR.

Well Location Plat

Unitized as One Property
David &
Della Savage
-Fee-
Gulfland Appalachian
Energy, Inc.
-Lessee-

Earl Young
-Fee-
Gulf Land &
Seismic, LLC
-Lessee-

James &
Debra Hylton
-Fee-
Gulf Land &
Seismic, LLC
-Lessee-

Unitized as One Property
Clyde Young
-Fee-
Gulfland Appalachian
Energy, Inc.
-Lessee-

Unitized as One Property
Sylvia Young
-Fee-
Gulf Land &
Seismic, LLC
-Lessee-

Kenneth &
Linda Young
-Fee-
Gulfland Appalachian
Energy, LLC
-Lessee-

Name	Area	Percent
S. Young	13.49	74.82
C. Young	1.79	9.93
D. Savage	2.75	15.25
Total	18.03	100.00

Coordinates for Well Location
Sylvia Young #1
NAD 83 KY South Zone
Surface Location
N 2292301
E 2482377
Lat: 38° 05' 16.40"
Long: 82° 49' 27.55"
Carter Coordinates
25-T-81
FSL 1627' x FEL 2236'

Justice Land Surveying & Engineering, Inc.

P.O. Box 565; Betsy Layne, Kentucky 41605 (606) 478-3100

DATE 02-13-14

SCALE 1" = 400'

PROPOSED WELL LOCATION

CARTER COORDINATES

UNITIZATION MAP

DRILL DEEPER

ABANDONMENT

25 - T - 81

OPERATOR Bruin Exploration, LLC
ADDRESS P.O. Box 910730; Lexington, KY 40591
MINERAL OWNER Sylvia Young
WELL NO. Sylvia Young #1 ELEVATION 669.4
COUNTY Lawrence KENTUCKY
QUADRANGLE Blaine (1992)

I HEREBY CERTIFY THAT THE ABOVE PLAT IS
ACCURATE AND CORRECT AND SATISFIES THE
REQUIREMENTS OF 805 KAR 1:030 TO THE BEST
OF MY KNOWLEDGE AND BELIEF.

LICENSED ENGINEER NO. 10,887
LICENSED PROFESSIONAL LAND SURVEYOR NO. 2652

PROJECT NO. 7229-001



Division of Oil
and Gas Conservation
1025 Capital Center Dr.
Frankfort, KY 40601

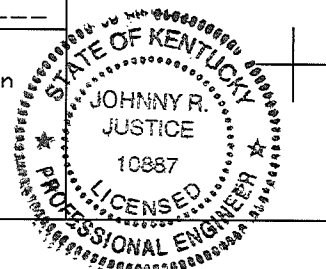
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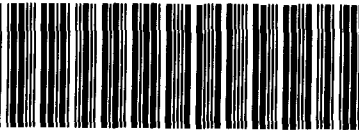
+ denotes location
of well on U.S.G.S
Topographic Maps

Scale: 1:24,000

FSL 1627'
FEL 2236'

STATE OF KENTUCKY
JOHNNY R.
JUSTICE
2652
LICENSED
PROFESSIONAL
LAND SURVEYOR





0144566002

COMMONWEALTH OF KENTUCKY
DEPARTMENT FOR NATURAL RESOURCES
DIVISION OF OIL AND GAS
P. O. Box 2244
FRANKFORT, KY 40602 PHONE (502) 573-0147



R*144566
AFFIDAVIT OF WELL LOG
AND COMPLETION REPORT
AS REQUIRED BY LAW

(TYPE OR PRINT IN INK)

OPERATOR'S PHONE 918-585-1100

WELL IDENTIFICATION

PERMIT NO. 110830

OPERATOR Bruin Exploration LLC

FARM NAME Sylvia Young WELL NO. #1

TYPE OF OPERATION

TWIN ☐

REOPEN ☒

NEW WELL ☐

WORKOVER ☐

DEEPENING ☐

LOCATION

COUNTY Lawrence

SEC. 25 LTR. T NO. 81

1627 ☐ FNL 2236 ☒ FEL ☐ FWL

ELEVATION 669 (GROUND) 701.25 (D.F.) (K.B.)

OPERATIONAL DATES

COMMENCED 03-13-14 COMPLETED 05-30-14

PLACED IN OPERATION 03-20-14

PLUGGED SHUT-IN 5-30-14 TA

DRILLING CONTRACTOR

NAME Pioneer Drilling Services

ADDRESS 1250 N.E. Loop 410 Ste. 1000

San Antonio, TX 78209

WATER ENCOUNTERED (FRESH, SALT, SULFUR)

TYPE	FROM	TO
Fresh Water	472'	614'
Salt Water	5660'	5666'

COMMENTS

GEOPHYSICAL LOGS RUN (AS REQUIRED BY KRS 353.550(2))

(ELECTRICAL, INDUCTION, SONIC, GAMMA RAY, NEUTRON, DENSITY, ETC.)

TYPE	FROM	TO
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TOTAL DEPTH DRILLED 12169 (AS REQUIRED BY KRS 353.570)

CASING DATA

CASING OUTSIDE DIAMETER	HOLE DIAMETER	DEPTH	CEMENT NO. SKS.	PULLED YES/NO
16"	20	683'	651'	No
10-3/4"	14-3/4"	4063'	968	No
7-5/8"	9-7/8"	9595	1970'	No
4-1/2"	6-1/2"	9462'-12169'	250	No

CEMENT YIELD IN CUBIC FEET/SACK = (s) 1.36, 1.39, (t) 1.62, 1.4 1.57, (2) 1.44 1.16 (p) 1.18

COMMENTS

TYPE OF COMPLETION (CHECK ONE)

DRY HOLE ☐

OIL ☐

GAS ☒ DOMESTIC GAS ☐

ENHANCED RECOVERY:

WATER INJECTION ☐ WATER SUPPLY ☐

GAS INJECTION ☐ SALT WATER DISPOSAL ☐

GAS STORAGE OBSERVATION ☐

INJECTION-EXTRACTION ☐ OTHER ☐

OTHER DESCRIBE

WELL TREATMENT TYPE OF FRAC.

SHOT

TYPE SHOT Shaped Perforating Charge

SHOT INTERVAL 10468-11044

SHOT AMOUNT 64'

COMPLETION INTERVAL, PERFORATIONS OR OPEN HOLE

FORMATION Rogersville INTERVAL 10468-11044

FORMATION INTERVAL

PLUGGED SHUT-IN

TREATMENT

TYPE OF TREATMENT Slickwater Frac

ACID AMOUNT -0- BBLs. -0- 2ND STAGE BBLs.

TOTAL FLUID 16113 BBLs. 2ND STAGE BBLs

TOTAL NITROGEN -0- SCF

TOTAL SAND 598509 LBS

ADDITIONAL CEMENTING

SQUEEZE CEMENT SKS. TOP

INTERVAL

PLUG BACK SKS. TOP

INTERVAL

INITIAL TEST VOLUMES

OIL NATURAL N/A B/D N/A DATE

AFTER TREATMENT 19 B/D 5-6-14 DATE

GAS NATURAL N/A MCF N/A DATE

AGAINST BACKPRESSURE OF N/A PSI

SHUT-IN PRESSURE N/A AFTER N/A HOURS

AFTER TREATMENT 115 MCF 5-6-14 DATE

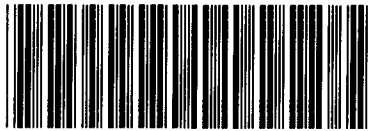
AGAINST BACKPRESSURE OF 200 PSI

SHUT-IN PRESSURE 2599 AFTER 24 HOURS

LIST DST'S, CORES, FILL-UP TESTS AND OTHER SPECIALIZED TESTS

TYPE	FROM
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THIS FORM MUST BE COMPLETED AND FILED FOR EVERY PERMIT IMMEDIATELY AFTER COMPLETION OF THE WELL. RE-OPENED WELLS NEED NOT INCLUDE A DRILLER'S LOG. HOWEVER, THE FRONT SIDE OF THIS FORM MUST BE COMPLETED. INCOMPLETE FORMS WILL BE REJECTED

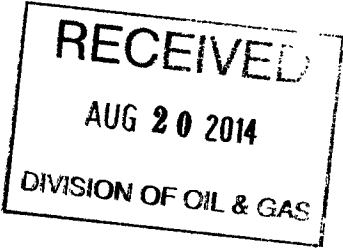


0144566003

FORMATION RECORD

R* 144566

FROM	TO	ROCK TYPE (DESCRIBE ROCK TYPES AND OTHER MATERIALS PENETRATED AND RECORD OCCURENCES OF OIL, GAS AND WATER FROM SURFACE TO TOTAL DEPTH.)	FROM	TO	ROCK TYPE (DESCRIBE ROCK TYPES AND OTHER MATERIALS PENETRATED AND RECORD OCCURENCES OF OIL, GAS AND WATER FROM SURFACE TO TOTAL DEPTH.)
1220	1235	Sunbury			
1235	1352	Berea			
1352	1968	Ohio Shale			
1968	2599	Corniferous			
2599	3819	Rosehill			
3819	5333	Trenton			
5333	7072	Knox			
7072	7613	Nolichucky			
7613	9652	Maryville			
9652	11967	Conasauga			
11967	TD	Rome			



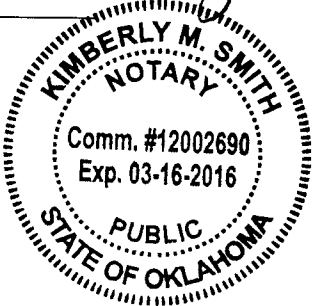
AFFIDAVIT

Bruin Exploration LLC, OPERATOR OF THE WELL CAPTIONED AS
PERMIT NUMBER 110541 DOES HEREBY SWEAR THAT THE DEPTH OF THE WELL IS ACCURATE
AND CORRECT AND DOES NOT EXCEED THE PERMITTED DEPTH OF 15000'

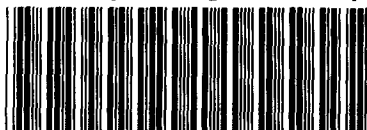
SIGNATURE OF OPERATOR Nope Khan TITLE Regulatory Tech DATE 8/19/14

SWORN TO AND SUBSCRIBED BEFORE ME THIS 19th DAY OF August, 20 14.

MY COMMISSION EXPIRES: 03-16-2016
Kimberly M. Smith NOTARY PUBLIC



Kentucky Geological Survey



0144566004

R# 144566

Sylvia Young #1 – Re-entry

Formation Tops excluded from initial filing:

<u>From</u>	<u>To</u>	<u>Rock Type</u>
0	628	Tennsylvanisan
628	768	Big Lime
768	794	Big Injun
794	1220	Borden