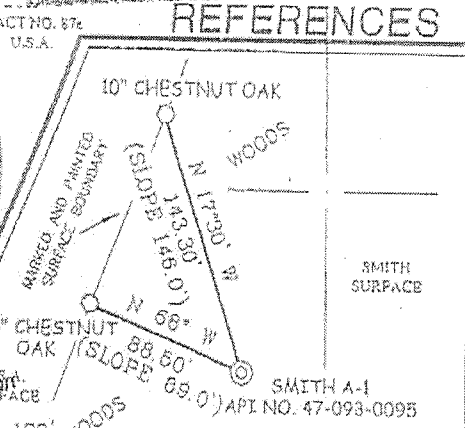
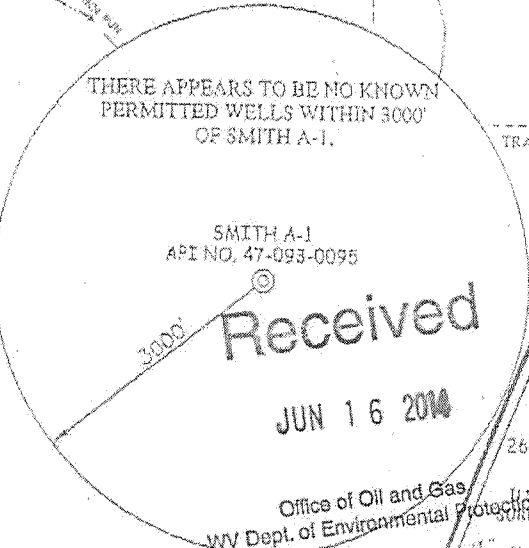
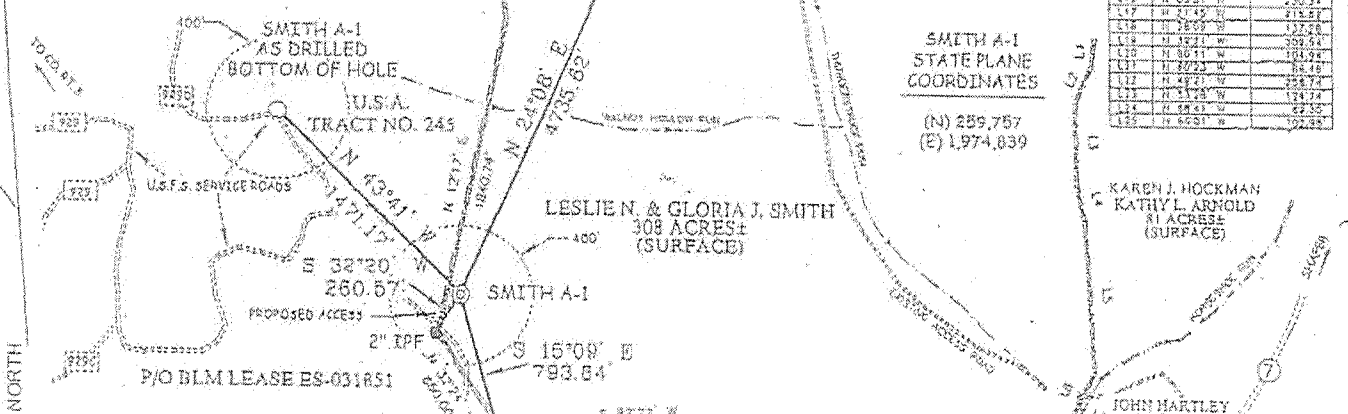


# WELL NO. SMITH A-1

## SMITH LEASE 308 ACRES ±

LINE	BORDER	DISTANCE
L1	S 12°20' W	1713.57
L2	S 27°20' E	208.54
L3	S 10°20' E	116.78
L4	S 18°20' E	444.48
L5	S 25°20' E	212.42
L6	S 12°20' W	1713.57
L7	S 12°20' W	1713.57
L8	S 12°20' W	1713.57
L9	S 12°20' W	1713.57
L10	S 12°20' W	1713.57
L11	S 12°20' W	1713.57
L12	S 12°20' W	1713.57
L13	S 12°20' W	1713.57
L14	S 12°20' W	1713.57
L15	S 12°20' W	1713.57
L16	S 12°20' W	1713.57
L17	S 12°20' W	1713.57
L18	S 12°20' W	1713.57
L19	S 12°20' W	1713.57
L20	S 12°20' W	1713.57
L21	S 12°20' W	1713.57
L22	S 12°20' W	1713.57
L23	S 12°20' W	1713.57
L24	S 12°20' W	1713.57
L25	S 12°20' W	1713.57
L26	S 12°20' W	1713.57
L27	S 12°20' W	1713.57
L28	S 12°20' W	1713.57
L29	S 12°20' W	1713.57
L30	S 12°20' W	1713.57



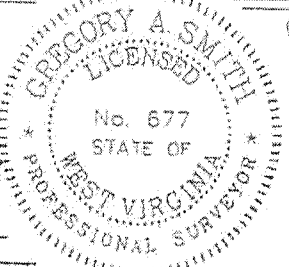
SMITH A-1  
API NO. 47-093-0095

**Received**

JUN 16 2010

Office of Oil and Gas  
WV Dept. of Environmental Protection

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 DIVISION OF ENVIRONMENTAL PROTECTION.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE MARCH 21, 20 03  
UPDATED 06/20/03, 02/11/04, AND 05/04/05

F.S. 677 Gregory A. Smith

OPERATORS WELL NO. SMITH A-1  
API WELL NO. 47 - 093 - 00095P  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 5169P1R3 (144-9 & 14)  
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION = 2507' SCALE 1" = 1000'

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 2404' WATERSHED LYNN RUN OF HORSESHOE RUN  
DISTRICT SAINT GEORGE COUNTY TUCKER

SURFACE OWNER LESLIE N. AND GLORIA J. SMITH QUADRANGLE LEAD MINE 7.5'  
ROYALTY OWNER FRED SMITH ACREAGE 308±

PROPOSED WORK: LEASE ACREAGE 308± OF 640± UNIT  
DRILL  CONVERT  DRILL DEEPER  REDRILL  LEASE NO.             
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 ORISKANY-TUSCARORA  
ESTIMATED DEPTH VERT. - 7,550' & HOR. - 7,750'

WELL OPERATOR MegaEnergy OPERATING, INC. DESIGNATED AGENT PAUL SMITH  
ADDRESS 8501 E. DRY CREEK PLACE ADDRESS P.O. BOX 884  
ENGLEWOOD, CO 80112 BRIDGEPORT, WV 26330

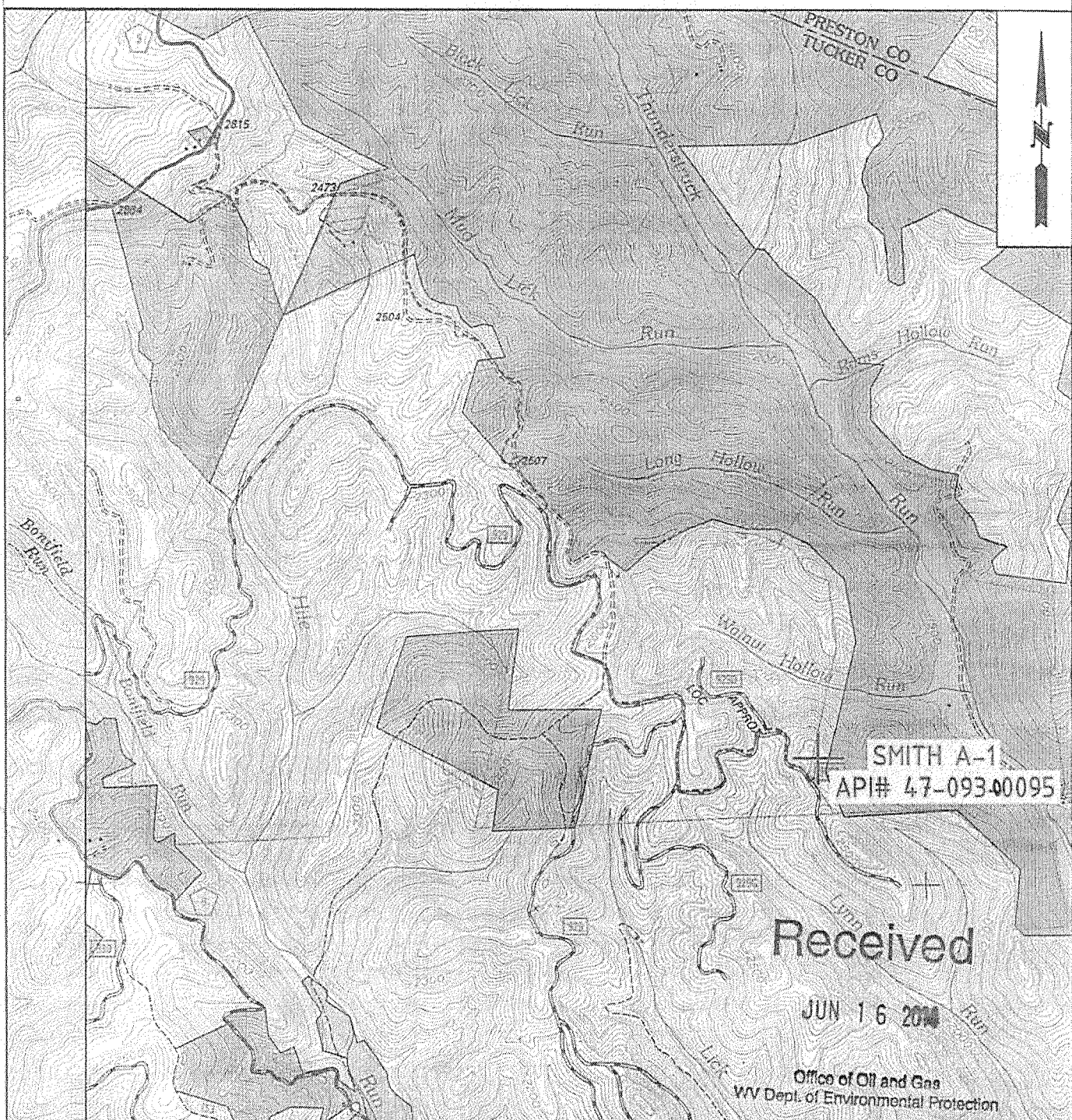
9300095P

WW-9

# SMITH A-1

API# 47-093-0095

SUPPLEMENT PG 1



<b>W0120323</b>	<b>OPERATOR</b>	<b>TOPO SECTION</b>	<b>LEASE NAME</b>
	GASTAR EXPLORATION INC. 229 W Main Street, Suite 301 Clarksburg, WV 26301	LEAD MINE 7.5'	SMITH
		<b>SCALE:</b>	<b>DATE:</b>
		1"=2000'	DATE: 05/05/14

# WELL NO. SMITH A-1

## SMITH LEASE 308 ACRES ±

LINE	BEARING	DISTANCE
L1	S 07°30' W	171.37
L2	S 23°00' W	208.56
L3	S 00°30' E	403.82
L4	S 17°00' E	279.78
L5	S 03°00' N	84.54
L6	S 23°00' N	274.86
L7	S 03°30' E	212.18
L8	S 07°00' W	340.26
L9	S 07°00' W	382.34
L10	S 10°00' E	747.78
L11	S 11°00' E	417.78
L12	S 05°26' W	620.35
L13	N 01°11' W	472.26
L14	N 00°31' E	20.42
L15	N 13°04' W	228.02
L16	N 05°01' W	230.34
L17	N 21°45' W	218.82
L18	N 38°05' W	137.28
L19	N 38°21' W	359.54
L20	N 00°11' W	104.84
L21	N 00°23' W	85.46
L22	N 48°21' W	258.74
L23	N 53°28' W	124.74
L24	N 05°41' W	62.30
L25	N 66°01' W	102.95

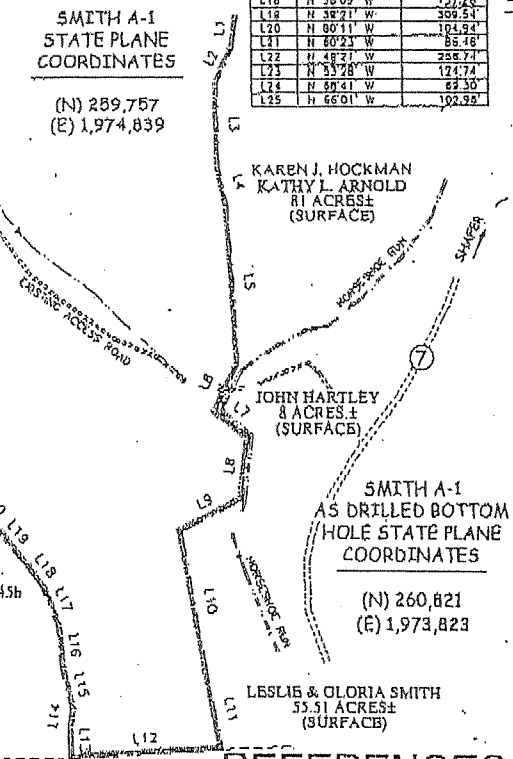
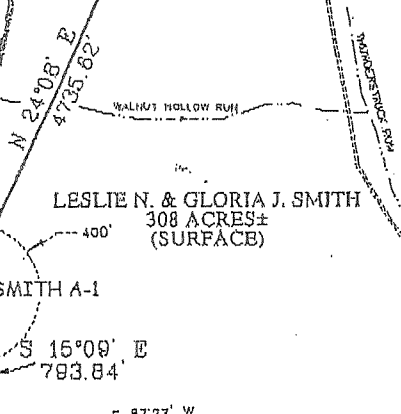
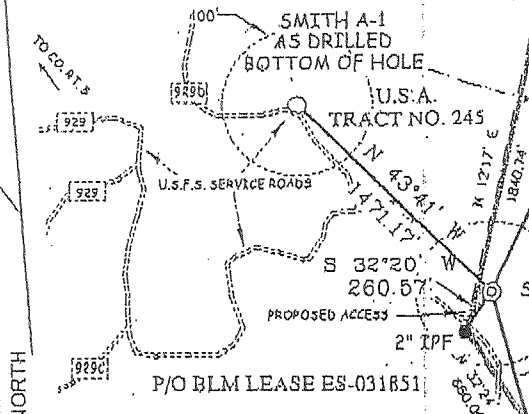
LESLIE N. & GLORIA J. SMITH  
308 ACRES ±  
(SURFACE)

SMITH A-1  
STATE PLANE  
COORDINATES  
(N) 259,757  
(E) 1,974,839

KAREN J. HOCKMAN  
KATHY L. ARNOLD  
81 ACRES ±  
(SURFACE)

JOHN HARTLEY  
8 ACRES ±  
(SURFACE)

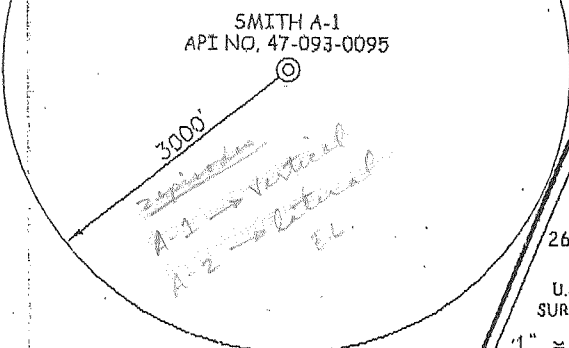
SMITH A-1  
AS DRILLED  
BOTTOM HOLE STATE PLANE  
COORDINATES  
(N) 260,821  
(E) 1,973,823



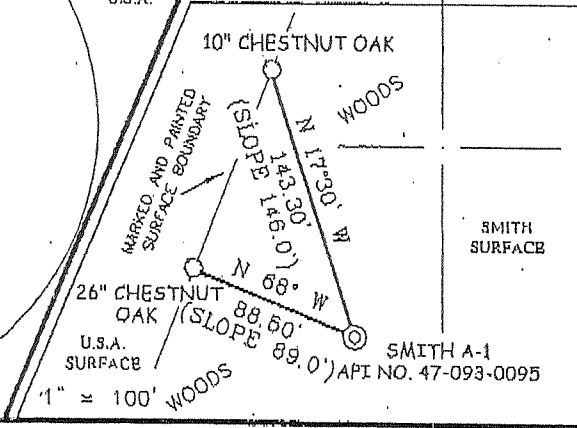
### NOTES ON SURVEY

1. TIES TO CORNERS ARE BASED ON STATE PLANE GRID NORTH WY NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 3-11-03.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A DEED DATED THE 3TH DAY OF JULY, 1956 AS RECORDED IN DEED BOOK 67 ON PAGE 484.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF TUCKER COUNTY IN JANUARY, 2003.
5. WELL LAT./LONG. ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).
6. PLAT WAS UPDATED JUNE 20, 2003 TO SHOW THE PROPOSED LOCATION AND COORDINATES OF THE SMITH A-1 BOTTOM OF HOLE. INFORMATION PROVIDED BY MegaEnergy (NAOW 1000').
7. PLAT UPDATED FEBRUARY 11, 2004 TO SHOW NEW BOTTOM HOLE COORDINATES. INFORMATION TO CALCULATE "AS DRILLED" BOTTOM HOLE COORDINATES WAS PROVIDED BY MegaEnergy AND CALCULATED RELATIVE TO THE PROPOSED TOP HOLE COORDINATES SHOWN HEREON.
8. PLAT UPDATED MAY 4, 2005 TO SHOW API NO. AND ESTIMATED DEPTH FOR FRACTURE AT VERTICAL AND HORIZONTAL DEPTHS.

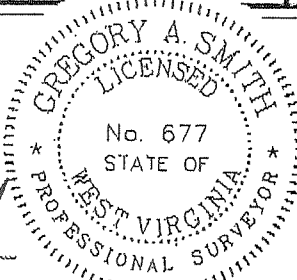
THERE APPEARS TO BE NO KNOWN PERMITTED WELLS WITHIN 3000' OF SMITH A-1.



### 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 DIVISION OF ENVIRONMENTAL PROTECTION.



P.S. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE MARCH 21, 20 03  
UPDATED 06/20/03, 02/11/04, AND 05/04/05

OPERATORS WELL NO. SMITH A-1  
API WELL NO. 47 - 093 - 0095  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 5169P1R3 (144-9 & 14)  
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION = 2507' SCALE 1" = 1000'

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 2404' WATERSHED LYNN RUN OF HORSESHOE RUN  
DISTRICT SAINT GEORGE COUNTY TUCKER QUADRANGLE LEAD MINE 7.5'

SURFACE OWNER LESLIE N. AND GLORIA J. SMITH ACREAGE 308±  
ROYALTY OWNER FRED SMITH LEASE ACREAGE 308± OF 640± UNIT

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

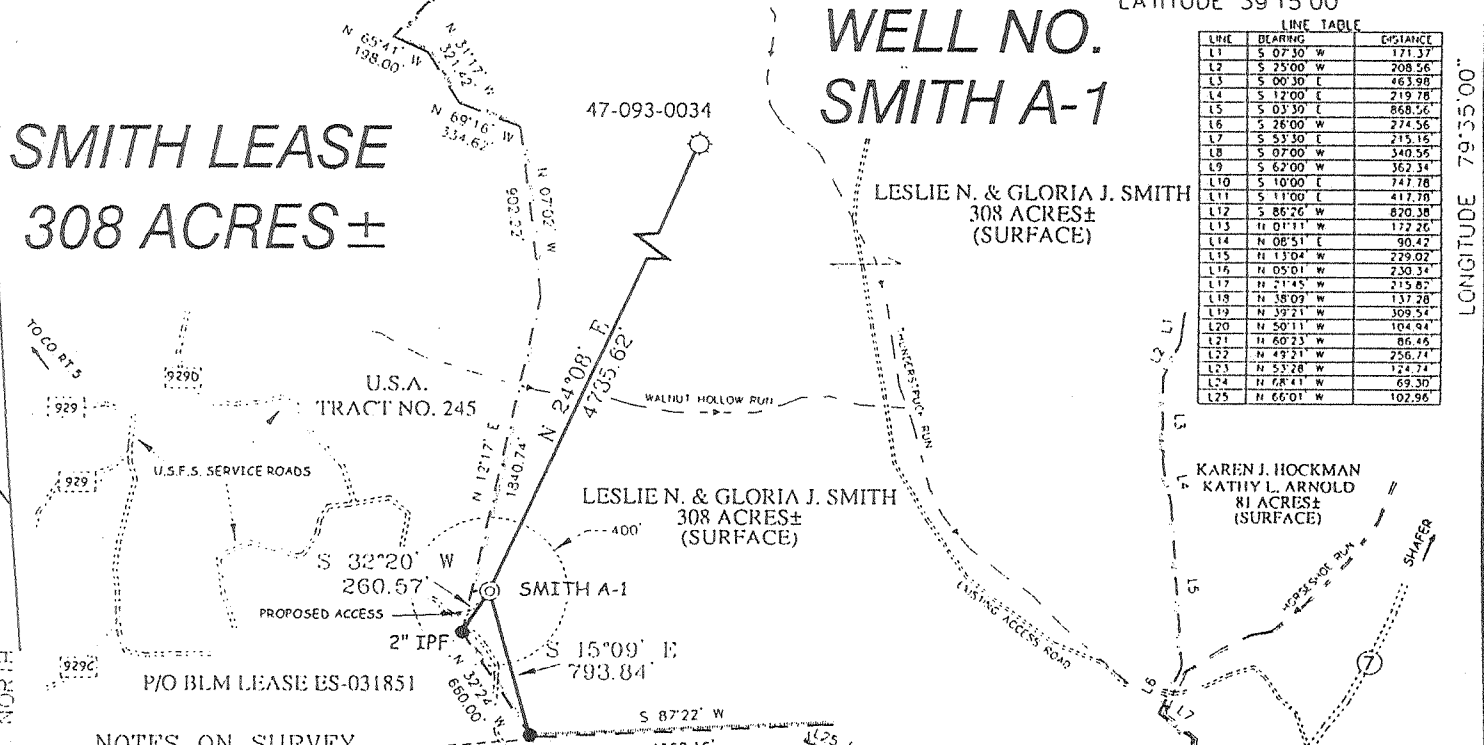
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION ORISKANY-TUSCARORA  
ESTIMATED DEPTH VERT. - 7,550' & HOR. - 7,750'

WELL OPERATOR MegaEnergy OPERATING, INC. DESIGNATED AGENT PAUL SMITH  
ADDRESS 8501 E. DRY CREEK PLACE ADDRESS P.O. BOX 884  
ENGLEWOOD, CO 80112 BRIDGEPORT, WV 26330

(LEAD Mine 325) 6-6

JUN 03 2005

COUNTY NAME TUCKER PERMIT 0095



LINE	BEARING	DISTANCE
L1	S 07°30' W	171.37
L2	S 25°00' E	208.36
L3	S 00°30' E	463.98
L4	S 12°00' E	219.78
L5	S 03°30' E	868.56
L6	S 26°00' W	274.56
L7	S 53°30' E	215.16
L8	S 07°00' W	340.56
L9	S 62°00' W	362.34
L10	S 10°00' E	747.78
L11	S 11°00' E	417.78
L12	S 86°26' E	820.38
L13	N 01°11' W	122.26
L14	N 08°51' E	90.42
L15	N 13°04' E	229.02
L16	N 05°01' W	230.34
L17	N 21°45' W	215.82
L18	N 38°09' W	137.28
L19	N 39°21' W	309.54
L20	N 50°11' W	104.84
L21	N 80°33' W	86.45
L22	N 49°31' W	256.74
L23	N 53°28' W	124.74
L24	N 68°41' W	69.39
L25	N 66°01' W	102.96

LONGITUDE 79°35'00"

13.400'

LAT. 39°12'47.4"

COUNTY NAME TUC

PERMIT 0095

NOTES ON SURVEY

1. TIES TO CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD 27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 3-11-03.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A DEED DATED THE 3TH DAY OF JULY, 1956 AS RECORDED IN DEED BOOK 67 ON PAGE 464.
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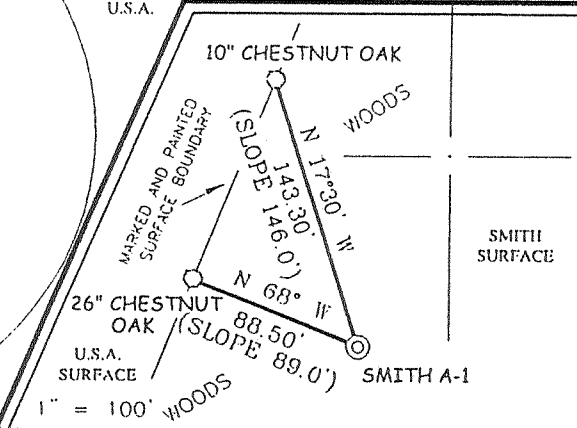
THERE APPEARS TO BE NO KNOWN PERMITTED WELLS WITHIN 3000' OF SMITH A-1.

SMITH A-1  
STATE PLANE  
COORDINATES

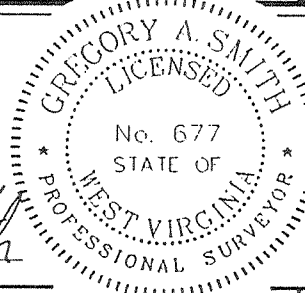
(N) 259,757  
(E) 1,974,839



REFERENCES



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

DATE MARCH 21, 20 03

OPERATORS WELL NO SMITH A-1

API WELL NO. 47 - 93 - 0095

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 5169PI (144-9 & 14)

PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION = 2507' SCALE 1" = 1000'

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 2404' WATERSHED LYNN RUN OF HORSESHOE RUN

DISTRICT SAINT GEORGE COUNTY TUCKER QUADRANGLE LEAD MINE 7.5'

SURFACE OWNER LESLIE N. AND GLORIA J. SMITH ACREAGE 308±

ROYALTY OWNER FRED SMITH LEASE ACREAGE 308± OF 640± UNIT

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 ORISKANY-TUSCARORA

ESTIMATED DEPTH 7200'

WELL OPERATOR MegaEnergy OPERATING, INC. DESIGNATED AGENT CARRY RANSON

ADDRESS 8501 E DRY PLACE ENGLEWOOD, CO 80112 ADDRESS 900 CORE ROAD PARKERSBURG, WV 26101

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

*br 17*

Well Operator's Report of Well Work

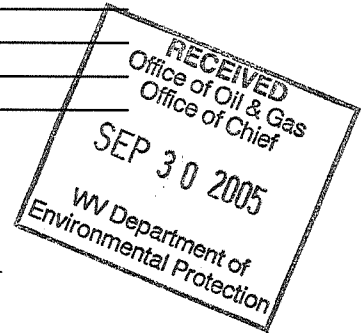
Farm name: Leslie N. & Gloria J. Smith Operator Well No.: Smith A-1/A-2

LOCATION: Elevation: 2404' Quadrangle: Leadmine 7.5'

District: Saint George County: Tucker  
Latitude: 13400 Feet South of 39 Deg. 15 Min. 0 Sec.  
Longitude 1600 Feet West of -79 Deg. 35 Min. 0 Sec.

Company: MegaEnergy Operating, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 9085 E. Mineral Cir, Ste 270 Englewood, CO 80112	26" csg	22'	22'	10 sxs
Agent: Paul Smith	20" H40 csg	163'	163'	80 sxs
Inspector: Craig Duckworth	13-3/8" J55	1232'	1232'	935 sxs
Date Permit Issued: 5-31-2005	9-5/8 J55 & N80	5794'	5794'	405 sxs
Date Well Work Commenced: 5-18-2005	7" P-110	7550'	7550'	290 sxs
Date Well Work Completed: 6-9-2005	4-1/2" L80	Liner	1823'	105 sxs
Verbal Plugging: N/A	(A-2 lat)			
Date Permission granted on: N/A	2-3/8" L80	Tubing	7304'	
Rig: Key Energy service unit				
Total Depth (feet): A-1: 7550 / A-2: 7750				
Fresh Water Depth (ft.): 277				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.):				



OPEN FLOW DATA

Producing formation Tuscarora Pay zone depth (ft) 7325-7352' (A-1)  
Gas: Initial open flow 3,000 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow no flow MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests N/A Hours  
Static rock Pressure 100 psig (surface pressure) after N/A Hours

Second producing formation Tuscarora Pay zone depth (ft) 7684-7750' (A-2)  
Gas: Initial open flow 10,000 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 1,300 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests N/A Hours  
Static rock Pressure 2,250 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.

Signed: \_\_\_\_\_  
By: J. Scott Hornafius  
Date: September 27, 2005

*TUC 0095*

OCT 21 2005

The following frac treatment was completed on the Smith A-2 (lateral):

5/18/05 SITP: 700 psi. MISU. 5/19/05 SITP: 700 psi. RUSU. Blew down well to tank. NU flowline.

5/23/05 FTP: 250 psi. Blew well down.

5/24/05 Fished swab cup. Pumped 50 Bbbls brine down tubing to check for restriction. Swabbed well in with 18 runs. Flowed to tanks 3 hrs.

5/25/05 Moved out mud pump equipment.

6/01/05 180#SICP, 50#SITP. Blew down tbg and annulus. Pumped 40 Bbbls brine into annulus.

6/03/05 Blew down annulus. Chained off tbg to wellhead. MIRU frac equipment. Pumped 342 bbl water, 99000 scf N2, est. 3200# 20/40 PCR sand. Swabbed 8 BLF total. Flowed foam, gas, and 7 BLF in 2-1/2 hrs. Well died. 327 BLFTR.

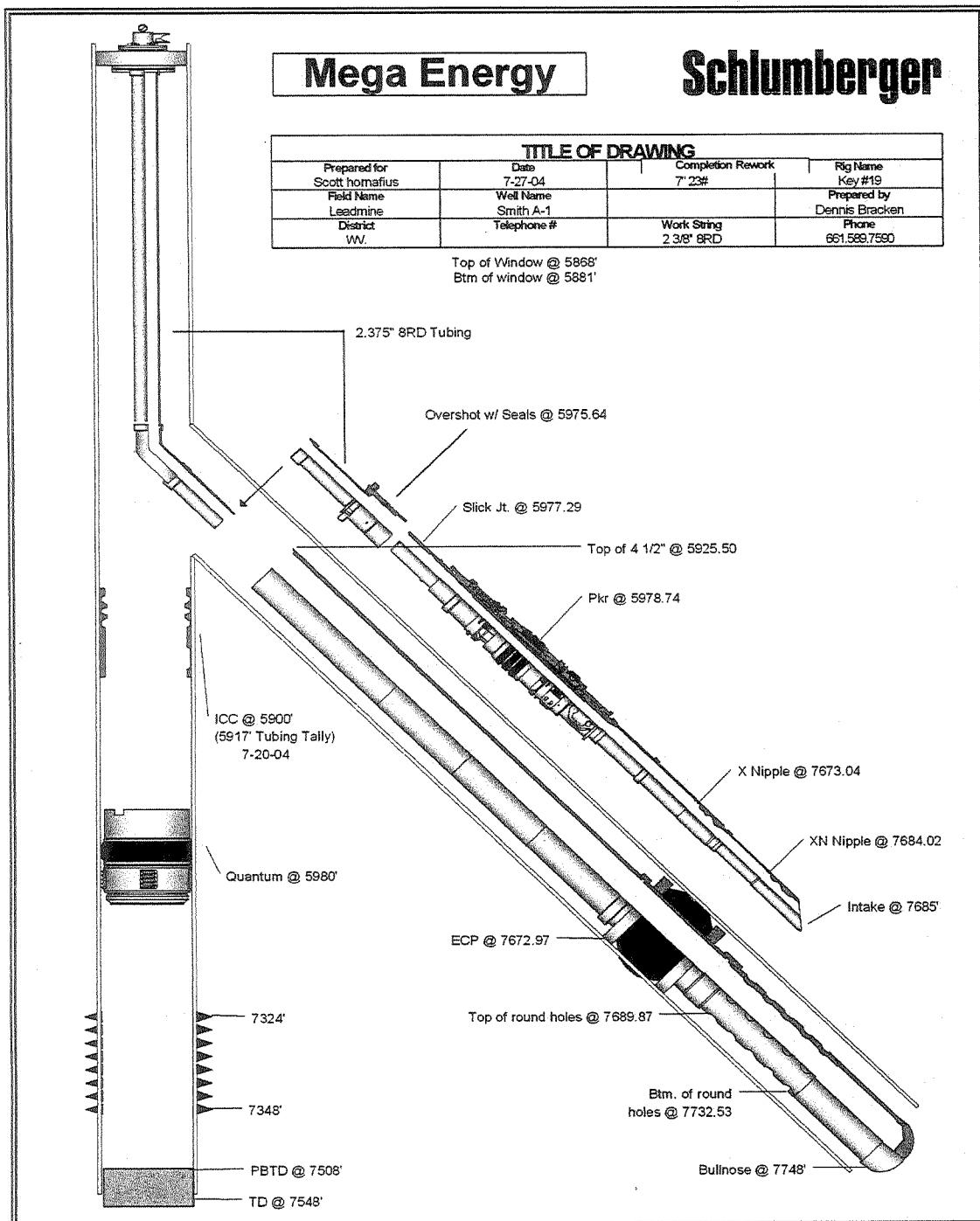
6/04/05 13 hr SITP 35#. Blew down to tank. 327 BLFTR.

6/06/05 48 hr SITP 35#, 60 hr SICP 85#. Blew both down. Swab 14 runs to 3300'. Total fluid recovered 40 Bbbls. 287 BLFTR.

6/07/05 15 hr SITP 320#. Blew well down to frac tank. Swab 7 hrs, 23 swab runs. Total fluid recovered 47 bbls. NU production line. 240 BLFTR.

6/08/05 Well unable to produce against line overnight. Swabbed 46 BF. 194 BLFTR.

6/09/05 60# SITP. RDSU. SI well.



OCT 21 2005