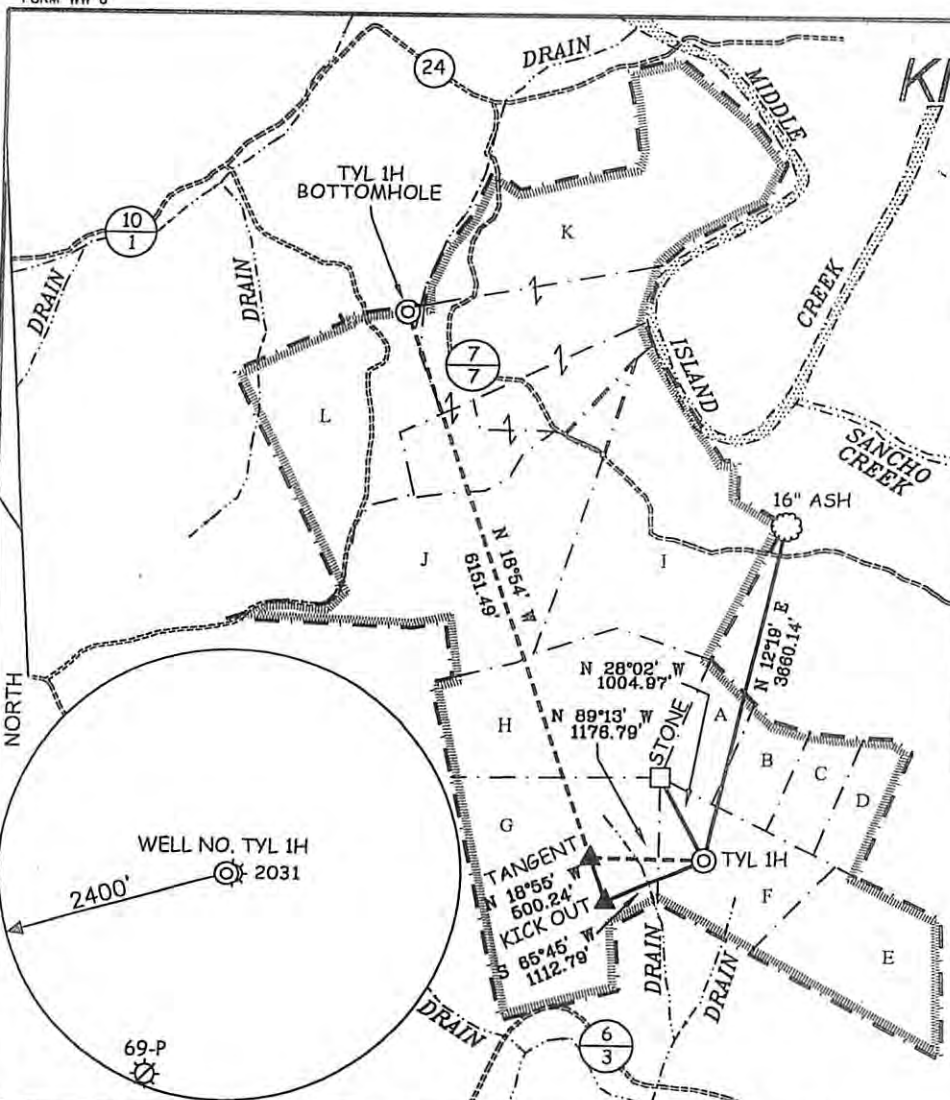


# KIRK HADLEY LEASE WELL NO. TYL 1H

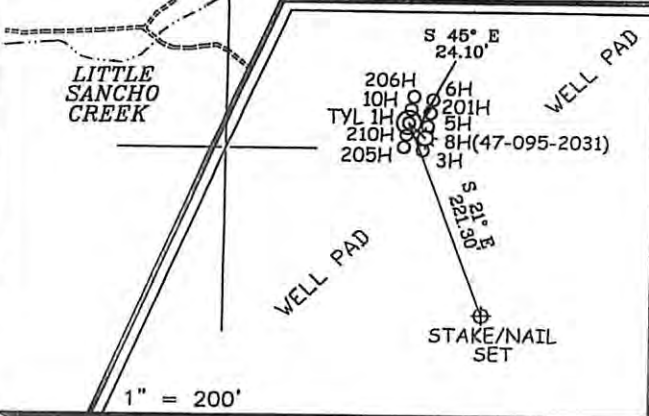


WELL NO. TYL 1H STATE PLANE COORDINATES (SOUTH ZONE NAD 27) N. 354,044 E. 1,595,604 WELL NO. TYL 1H (NAD 27) LAT=(N) 39.46321 LONG=(W) 80.93238 WELL NO. TYL 1H (NAD 27) LAT=(N) 39.2747.6 LONG=(W) 80°55'56.6" WELL NO. TYL 1H (NAD 83) LAT=(N) 39.46329 LONG=(W) 80.93221 WELL NO. TYL 1H (NAD 83) LAT=(N) 39.2747.8 LONG=(W) 80°55'56.0" UTM (NAD 83) N. 4,368,192 E. 505,832	WELL NO. TYL 1H "KICK OUT" POINT STATE PLANE COORDINATES (NORTH ZONE NAD 27) N. 353,587 E. 1,594,590 "KICK OUT" POINT (NAD 27) LAT=(N) 39.46191 LONG=(W) 80.93595 "KICK OUT" POINT (NAD 27) LAT=(N) 39.2742.9 LONG=(W) 80°56'09.4" "KICK OUT" POINT (NAD 83) LAT=(N) 39.46199 LONG=(W) 80.93578 "KICK OUT" POINT (NAD 83) LAT=(N) 39.2743.2 LONG=(W) 80°56'08.8" UTM (NAD 83) N. 4,368,048 E. 505,825
WELL NO. TYL 1H TANGENT POINT STATE PLANE COORDINATES (NORTH ZONE NAD 27) N. 354,060 E. 1,594,428 TANGENT POINT (NAD 27) LAT=(N) 39.46320 LONG=(W) 80.93655 TANGENT POINT (NAD 27) LAT=(N) 39.2747.5 LONG=(W) 80°56'11.6" TANGENT POINT (NAD 83) LAT=(N) 39.46328 LONG=(W) 80.93638 TANGENT POINT (NAD 83) LAT=(N) 39.2747.8 LONG=(W) 80°56'11.0" UTM (NAD 83) N. 4,368,191 E. 505,473	WELL NO. TYL 1H BOTTOM HOLE STATE PLANE COORDINATES (SOUTH ZONE NAD 27) N. 359,880 E. 1,592,434 BOTTOM HOLE (NAD 27) LAT=(N) 39.47908 LONG=(W) 80.94394 BOTTOM HOLE (NAD 27) LAT=(N) 39.2844.7 LONG=(W) 80°56'38.2" BOTTOM HOLE (NAD 83) LAT=(N) 39.47917 LONG=(W) 80.94377 BOTTOM HOLE (NAD 83) LAT=(N) 39.2845.0 LONG=(W) 80°56'37.6" UTM (NAD 83) N. 4,369,954 E. 504,836

### NOTES ON SURVEY

1. TIES TO WELLS, REFERENCES, AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 213 PAGE 74, DEED BOOK 88 PAGE 159, AND ADJOINING DEEDS.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF TYLER COUNTY IN JULY, 2011.
4. WELL COORDINATES ESTABLISHED BY SURVEY GRADE GPS.

### REFERENCES

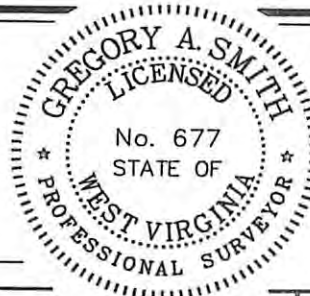


LOT	TAXMAP/PARCEL	OWNER	ACERS ±	LEASE NUMBER
A	26/12	KIRK HADLEY	16 OF 162	1-291161-000
B	26/12	KIRK HADLEY	15 OF 162	1-309171-002
C	26/12	KIRK HADLEY	15 OF 162	3-034617-000
D	26/12	KIRK HADLEY	16 OF 162	1-309171-003
E	26/12	KIRK HADLEY	55 OF 162	1-309171-001
F	26/12	KIRK HADLEY	45 OF 162	1-309171-004
G	2/15	JAMES & ANGELA LONG	100	1-309109-000
H	25/2	JAMES & ANGELA LONG	75	1-309110-001 THROUGH 1-309110-014, 1-292575-001
I	19/54	DEBORAH SUSAN REED	100	1-355081-000
J	23/1	DEBORAH SUSAN REED	100.45	1-292575-001, 1-291107-001 THROUGH 1-291107-010, 1-324911-001
K	19/52	RUTH MOORE	188.36	1-281598-001 & 1-292575-001
L	19/51	LARRY MOORE ETAL	72	1-291107-001 THROUGH 1-291107-010, 1-292575-001



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 AUGUST 9, 20 12  
 OPERATORS WELL NO. KIRK HADLEY TYL 1H  
 API WELL NO. 47  
 STATE \_\_\_\_\_ COUNTY \_\_\_\_\_ PERMIT \_\_\_\_\_

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7422P1R5 (308-50)  
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 2,000'

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

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

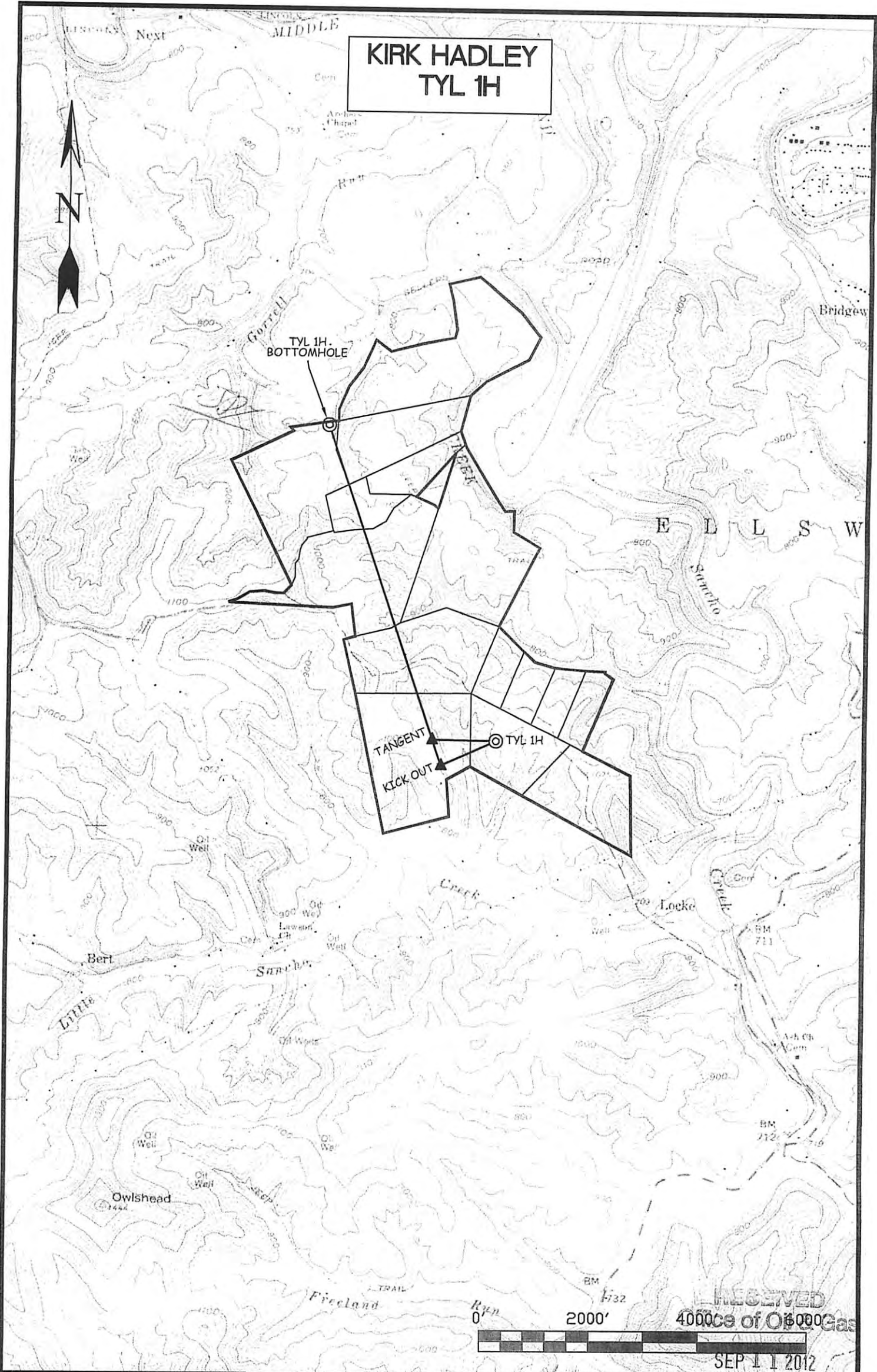
LOCATION: ELEVATION 911' WATERSHED LITTLE SANCHO CREEK

DISTRICT MEADE COUNTY TYLER QUADRANGLE MIDDLEBOURNE 7.5'  
 SURFACE OWNER KIRK HADLEY ACREAGE 162±  
 ROYALTY OWNER KIRK HADLEY, ET AL (16, 15, 15, 16, 45 & 55 OF 162, 100, 100.45, 188.36, & 72 ACRES±)

PROPOSED WORK: LEASE NO. \_\_\_\_\_  
 DRILL X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD \_\_\_\_\_  
 FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_ OTHER \_\_\_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS  
 ESTIMATED DEPTH 6,173' TVD / 12,700' TMD

WELL OPERATOR CHESAPEAKE APPALACHIA, LLC. DESIGNATED AGENT ERIC B. GILLESPIE  
 ADDRESS P.O. BOX 18496 ADDRESS P.O. BOX 6070  
OKLAHOMA CITY, OK 73154-0496 CHARLESTON, WV 25362

**KIRK HADLEY  
TYL 1H**



**SLS**  
SMITH LAND SURVEYING, INC.  
P.O. BOX 150 GLENVILLE, WV. 26351  
PH: (304) 462-5634 FAX: (304) 462-5656 E-MAIL: sls@slssurveys.com

TYLER COUNTY		
MIDDLEBOURNE, WV 7.5' QUAD		
DRAWN BY C.P.M.	FILE NO. 74221R5TPO.DWG	DATE 08-09-12

OPERATOR:  
**CHESAPEAKE APPALACHIA, LLC**  
P.O. BOX 6070  
CHARLESTON, WV 25362

11/23/2012