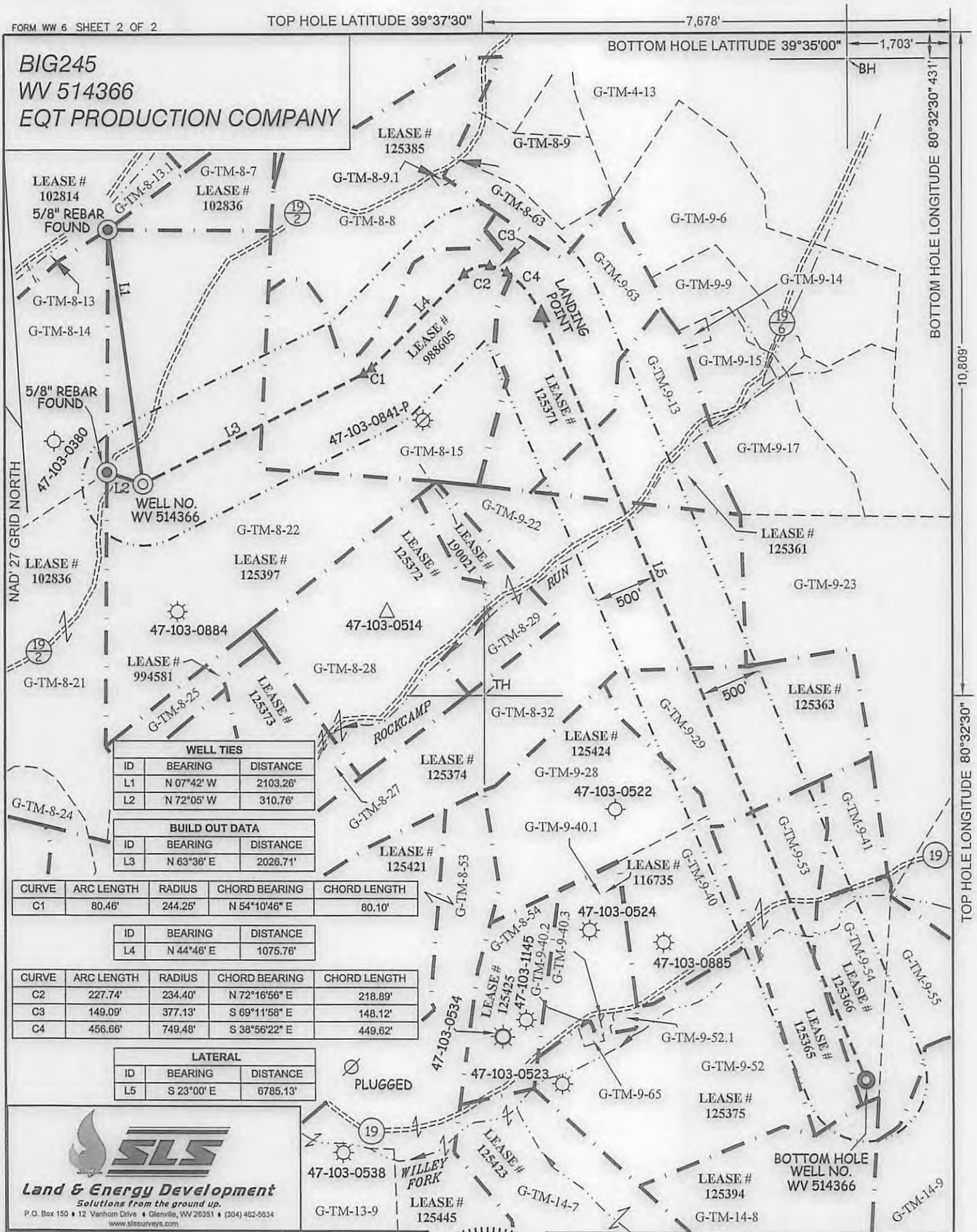


BIG245
WV 514366
EQT PRODUCTION COMPANY



WELL TIES		
ID	BEARING	DISTANCE
L1	N 07°42' W	2103.26'
L2	N 72°05' W	310.76'

BUILD OUT DATA		
ID	BEARING	DISTANCE
L3	N 63°36' E	2026.71'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	80.46'	244.25'	N 54°10'46" E	80.10'

ID	BEARING	DISTANCE
L4	N 44°46' E	1075.76'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C2	227.74'	234.40'	N 72°16'56" E	218.89'
C3	149.09'	377.13'	S 69°11'58" E	148.12'
C4	456.66'	749.48'	S 38°56'22" E	449.62'

LATERAL		
ID	BEARING	DISTANCE
L5	S 23°00' E	6785.13'

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(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'27 S.P.C.(FT)	N. 400,733.49	E. 1,698,787.11	
NAD'27 GEO.	LAT-(N) 39.595327	LONG-(W) 80.568912	
NAD'83 UTM (M)	N. 4,382,942.02	E. 537,030.03	
LANDING POINT			
NAD'27 S.P.C.(FT)	N. 402,109.68	E. 1,702,054.43	
NAD'27 GEO.	LAT-(N) 39.599211	LONG-(W) 80.557376	
NAD'83 UTM (M)	N. 4,383,377.94	E. 538,018.49	
BOTTOM HOLE			
NAD'27 S.P.C.(FT)	N. 395,863.97	E. 1,704,705.66	
NAD'27 GEO.	LAT-(N) 39.582150	LONG-(W) 80.547710	
NAD'83 UTM (M)	N. 4,381,488.61	E. 538,857.92	

VICTOR MOYERS
 LICENSED
 No. 849
 STATE OF
WEST VIRGINIA
 PROFESSIONAL SURVEYOR

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

SCALE 1" = 1000' FILE NO. 7812P514366R

DATE OCTOBER 04, 20 16

REVISED _____, 20 _____

OPERATORS WELL NO. WV 514366

API WELL NO. 47-103-03173

NO. 47 STATE 103 COUNTY 03173 PERMIT _____

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

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- STORAGE WELL
- GRANT DISTRICT TAX MAP-PARCEL

G-00-00

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY

ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

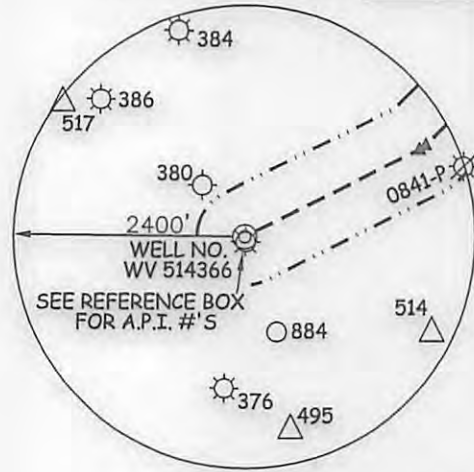
BOTTOM HOLE LONGITUDE 80°32'30" 431'
 10,809'
 TOP HOLE LONGITUDE 80°32'30"
 COUNTY NAME _____
 PERMIT _____

03/03/2017

BIG245
WV 514366
EQT PRODUCTION COMPANY

BOTTOM HOLE LATITUDE 39°35'00"

1,703'



BOTTOM HOLE LONGITUDE 80°32'30" 431'

G-TM-4-13	OLIVE UTT	15.17 ACRES±
G-TM-8-7	JAMES & MARTIN STONEKING	19.12 ACRES±
G-TM-8-8	WANDA BYARD	59.16 ACRES±
G-TM-8-9	MARY WRIGHT ET AL	24 ACRES±
G-TM-8-9.1	OAK GROVE SCHOOL	0.5 ACRES±
G-TM-8-13	NEAL UTT	3.75 ACRES±
G-TM-8-13.1	DUANE GOODRICH	3.56 ACRES±
G-TM-8-14	NEAL UTT	51 ACRES±
G-TM-8-15	JOHN M. BYARD	71.60 ACRES±
G-TM-8-21	IKEY JOE WILLEY	76.27 ACRES±
G-TM-8-22	ET BLUE GRASS LLC	138.93 ACRES±
G-TM-8-24	DORN HIGGINBOTHAM ET AL	7.1 ACRES±
G-TM-8-25	JAMES YOHO	6.25 ACRES±
G-TM-8-27	JAMES YOHO	21.75 ACRES±
G-TM-8-28	JAMES A. & FLORENCE D. YOHO	61 ACRES±
G-TM-8-29	MARY & HUGH BYARD HRS	15 ACRES±
G-TM-8-32	JOE PIGG	82.4 ACRES±
G-TM-8-53	DORN HIGGINBOTHAM	196.21 ACRES±
G-TM-8-54	SHERILYN SNIDER	20 ACRES±
G-TM-8-63	MARY WRIGHT ET AL	4.25 ACRES±
G-TM-9-6	JAMES & FLORENCE YOHO	45.08 ACRES±
G-TM-9-9	LOSSIE WATSON ET AL	11.3 ACRES±
G-TM-9-13	JAMES & FLORENCE YOHO	27 ACRES±
G-TM-9-14	JAMES & FLORENCE YOHO	0.8 ACRES±
G-TM-9-15	OPAL STONEKING EST	8.82 ACRES±
G-TM-9-17	HURSEL WILLEY ET AL	20.08 ACRES±
G-TM-9-22	JAMES & FLORENCE YOHO	17.6 ACRES±
G-TM-9-23	STEPHEN & CAROLYN GANTZ	119 ACRES±
G-TM-9-28	SHERILYN SNIDER	55.52 ACRES±
G-TM-9-29	WILLIAM SCHLEICHER	38 ACRES±
G-TM-9-40	SHERILYN SNIDER	24 ACRES±
G-TM-9-40.1	DONALD DULANY ET AL	22 ACRES±
G-TM-9-40.2	TERRI DERBY	0.09 ACRES±
G-TM-9-40.3	NORMAN & VIVIAN DERBY	0.005 ACRES±
G-TM-9-41	WILLIAM SCHLEICHER	11.56 ACRES±
G-TM-9-52	NORMAN DERBY	61.51 ACRES±
G-TM-9-52.1	NORMAN & VIVIAN DERBY	1 ACRES±
G-TM-9-53	NORMAN & VIVIAN DERBY	32.9 ACRES±
G-TM-9-54	JACK & LEANNA BARNETTE	17.4 ACRES±
G-TM-9-55	JACK & LEANNA BARNETTE	18.4 ACRES±
G-TM-9-63	MARY WRIGHT ET AL	46 ACRES±
G-TM-9-65	TERRI & JASON BEATY	0.61 ACRES±
G-TM-13-09	MARY HIGGINBOTHAM	30.1 ACRES±
G-TM-14-07	NORMAN DERBY	83 ACRES±
G-TM-14-08	ESTHER COEN	59.5 ACRES±
G-TM-14-09	LEONARD RICE ET AL	55 ACRES±

NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.

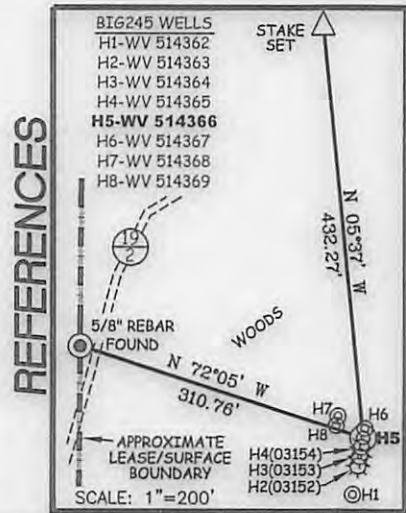
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NAD'83 UTM (M)	N. 4,381,488.61	E. 538,857.92

TH

ROYALTY OWNERS

LIBERTY HOLDING COMPANY	71.6 AC.±	LEASE NO. 988605
JOSEPH F. & NONDIS A KIGER	46 AC.±	LEASE NO. 125371
IVA M. HALL ET AL	27 AC.±	LEASE NO. 125361
JORDAN Z. PIGG	100 AC.±	LEASE NO. 125374
WILLIAM SCHLEICHER	48 AC.±	LEASE NO. 125363
NORMAN R. DERBY & VIVIAN L. DERBY	33 AC.±	LEASE NO. 125365
OXY USA INC	18 AC.±	LEASE NO. 125366



TOP HOLE LONGITUDE 80°32'30"

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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 DIVISION OF ENVIRONMENTAL PROTECTION.



P.S. 849 *C. Victor Moyers*

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

DATE OCTOBER 04, 20 16

REVISED _____, 20 _____

OPERATORS WELL NO. WV 514366

API WELL NO. 47 — 103 — 03173 **WVA**

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7812P514366R.dwg

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE SEE NOTE 2

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: (GROUND) (PROPOSED)

ELEVATION 1,478' 1,430' WATERSHED TRIBUTARY OF ROCKCAMP RUN

DISTRICT GRANT COUNTY WETZEL QUADRANGLE BIG RUN 7.5'

SURFACE OWNER ET BLUE GRASS LLC ACREAGE 138.93±

ROYALTY OWNER SHIBEN ESTATES INC. ACREAGE 140± **03/03/2017**

PROPOSED WORK: LEASE NO. 125397

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 MARCELLUS

ESTIMATED DEPTH 7,532'

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY

ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT