

OXF160
WV 513702
EQT PRODUCTION COMPANY

LATITUDE 39°12'30"

LONGITUDE 80°47'30"

14,184'

9,792'

AS DRILLED COORDINATES
(OXF160 H5)

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD27 S.P.C.(FT)	N. 250,860.78	E. 1,631,718.31
NAD27 GEO.	LAT-(N) 39.181449	LONG-(W) 80.799198
NAD83 UTM (M)	N. 4,336,941.20	E. 517,358.30
<u>LANDING POINT</u>		
NAD27 S.P.C.(FT)	N. 250,376.86	E. 1,631,395.70
NAD27 GEO.	LAT-(N) 39.180108	LONG-(W) 80.800311
NAD83 UTM (M)	N. 4,336,792.14	E. 517,262.47
<u>BOTTOM HOLE</u>		
NAD27 S.P.C.(FT)	N. 246,458.40	E. 1,632,410.64
NAD27 GEO.	LAT-(N) 39.169391	LONG-(W) 80.796531
NAD83 UTM (M)	N. 4,335,603.56	E. 517,591.59

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. TOPO MARK SCALE IS 1"=2000'.
3. AS DRILLED INFORMATION PROVIDED BY EQT.

ROYALTY OWNERS		
GLENN H. SHIVE ET AL	53 AC.±	LEASE NO. 114449
C. BURKE MORRIS & S.A. SMITH ET AL	28 AC.±	LEASE NO. 114447

A	ROBERT BRANNON ET AL	70 ACRES±	SW TM-09-19
B	RONALD HART & JEFFERY HART	60 ACRES±	SW TM-09-20
C	ILL. MORRIS	6,600.75 ACRES±	SW TM-10-02
D	ROBERT BRANNON ET AL	25.1 ACRES±	SW TM-13-18
E	RONALD HART & JEFFERY HART	46 ACRES±	SW TM-13-12
F	RONALD HART & JEFFERY HART	45 ACRES±	SW TM-09-21
G	MARIA HRUSCOV	57.5 ACRES±	SW TM-10-01
H	WILLIAM ARMENTROUT ET AL	44.35 ACRES±	SW TM-14-02
I	MICHAEL & SUSAN ZORN	52.5 ACRES±	SW TM-14-01
J	MICHAEL & SUSAN ZORN	47.5 ACRES±	SW TM-14-1.1
K	WILLIAM ARMENTROUT ET AL	16.8 ACRES±	SW TM-14-04
L	EDWARD & GINA BASSETT	41 ACRES±	SW TM-13-39
M	MARIAN ZORN	34.78 ACRES±	SW TM-13-40
N	WILLIAM ARMENTROUT ET AL	76 ACRES±	SW TM-13-41



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. 849 C. Victor Moyers



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MARCH 24, 20 16
 REVISED 04/06/16 & 12/15/16
 OPERATORS WELL NO. WV 513702
 API WELL NO. 47 - 017 - 06771H
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7310AD513702
 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:
 PAD ELEVATION 1,220' WATERSHED UPPER RUN OF MIDDLE FORK OF SOUTH FORK HUGHES RIVER
 DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

SURFACE OWNER RONALD HART & JEFFERY HART ACREAGE 60±
 ROYALTY OWNER MONA R. CUMBERLEDGE ET AL ACREAGE 206±
 PROPOSED WORK: LEASE NO. 107453

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 6,603'

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

OXF160
WV 213705
EQT PRODUCTION COMPANY

AS DRILLED COORDINATES
(OXF160 H5)

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD83 UTM (M) N. 4382,603.88 E. 817,281.50
 NAD27 S.P.C. (FT) N. 250,378.88 E. 1,831,382.70

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 NAD27 S.P.C. (FT) N. 250,378.88 E. 1,831,382.70

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. TORO MARK SCALE IS 1"=2000'.

3. AS DRILLED INFORMATION PROVIDED BY EQT.

ROYALTY OWNERS	
C. BURKE MORRIS & S.A. SMITH ET AL	28 AC ±
GLENN H. SHIVE ET AL	83 AC ±
LEASE NO. 114447	
LEASE NO. 114449	

A	ROBERT BRANNON ET AL	70 ACRES ±	SW 1M-09-19
B	RONALD HART & JEFFERY HART	60 ACRES ±	SW 1M-09-20
C	I.L. MORRIS	600.73 ACRES ±	SW 1M-10-02
D	ROBERT BRANNON ET AL	25.1 ACRES ±	SW 1M-13-18
E	RONALD HART & JEFFERY HART	46 ACRES ±	SW 1M-13-12
F	RONALD HART & JEFFERY HART	42 ACRES ±	SW 1M-09-21
G	MARIA HRUSCOV	27.3 ACRES ±	SW 1M-10-01
H	WILLIAM ARMSTRONG ET AL	44.32 ACRES ±	SW 1M-14-02
I	MICHAEL & SUSAN ZORN	25.3 ACRES ±	SW 1M-14-01
J	MICHAEL & SUSAN ZORN	47.3 ACRES ±	SW 1M-14-11
K	WILLIAM ARMSTRONG ET AL	16.8 ACRES ±	SW 1M-14-04
L	EDWARD & GINA BASSETT	41 ACRES ±	SW 1M-13-20
M	MARIA ZORN	34.78 ACRES ±	SW 1M-13-40
N	WILLIAM ARMSTRONG ET AL	76 ACRES ±	SW 1M-13-41



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DATE MARCH 24, 2018
 REVISED 04/08/16 & 12/15/16
 OPERATORS WELL NO. WV 213705
 API WELL NO. 47-017-06771H
 STATE COUNTY PERMIT

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

WELL OPERATOR: EQT PRODUCTION COMPANY
 ADDRESS: 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

DESIGNATED AGENT: REX C. RAY

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) _____
 ESTIMATED DEPTH _____, 603'

TARGET FORMATION: MARCELLUS
 COUNTY: SOUTHWEST
 COUNTY: DODDRIDGE
 QUADRANGLE: OXFORD 7.5
 SURFACE OWNER: RONALD HART & JEFFERY HART
 ROYALTY OWNER: MONA R. CUMBERLEDGE ET AL
 ACREAGE: 206 ±
 ACREAGE: 60 ±
 LEASE NO.: 107453

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

CONTROL DETERMINED BY: DGPS (SURVEY GRADE TIE TO CORS NETWORK)
 SCALE: SEE NOTE 2
 FILE NO.: 7310AD513705

MINIMUM DEGREE OF ACCURACY: 1:2500
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY: DGPS (SURVEY GRADE TIE TO CORS NETWORK)

LOCATION: PAD ELEVATION: 1220'
 WATERSHED: UPPER RUN OF MIDDLE FORK OF SOUTH FORK HUGHES RIVER

COUNTY NAME: SOUTHWEST
 PERMIT: 47-017-06771H

LATITUDE 39°13'30"
 LONGITUDE 80°41'30"
 14' 10"
 2' 13"

14' 10"

BH

HT



OXF160
WV 513702
EQT PRODUCTION COMPANY

WELL TIES		
ID	BEARING	DISTANCE
L1	N 48°16' W	1430.69'
L2	S 55°15' W	1762.57'

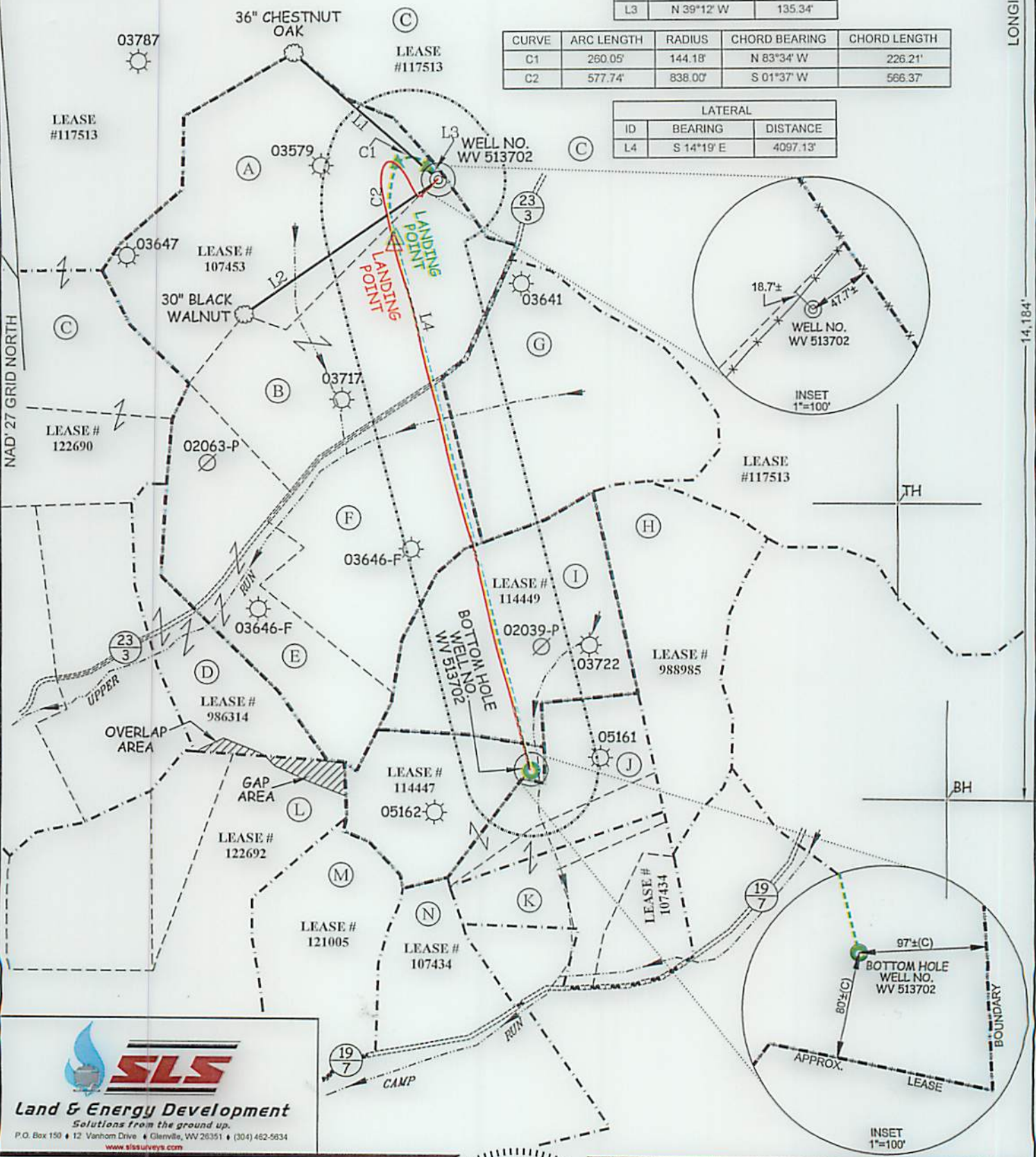
LATITUDE 39°12'30"

BUILD OUT DATA		
ID	BEARING	DISTANCE
L3	N 39°12' W	135.34'

LONGITUDE 80°47'30"

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	260.05'	144.18'	N 83°34' W	226.21'
C2	577.74'	838.00'	S 01°37' W	566.37'

LATERAL		
ID	BEARING	DISTANCE
L4	S 14°19' E	4097.13'



SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26351 • (304) 462-5634
www.slsurveys.com

**AS DRILLED COORDINATES
(OXF160 H5)**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD27 S.P.C.(FT) N. 250,860.78 E. 1,631,718.31
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 NAD27 GEO. LAT-(N) 39.169391 LONG-(W) 80.796531
 NAD83 UTM (M) N. 4,335,603.56 E. 517,591.59



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

LEGEND

- LEASE LINE
- SURFACE LINE
- PROPOSED PATH
- AS DRILLED PATH
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- PLUGGED WELL
- SOUTH WEST DISTRICT TAX MAP-PARCEL SW-00-00

SCALE 1" = 1000'
 DATE MARCH 24, 2016
 REVISED 04/06/16 & 12/15/16
 OPERATORS WELL NO. WV 513702
 API WELL NO. 47-017-06771H
 STATE COUNTY PERMIT

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

DESIGNATED AGENT REX C. RAY
 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

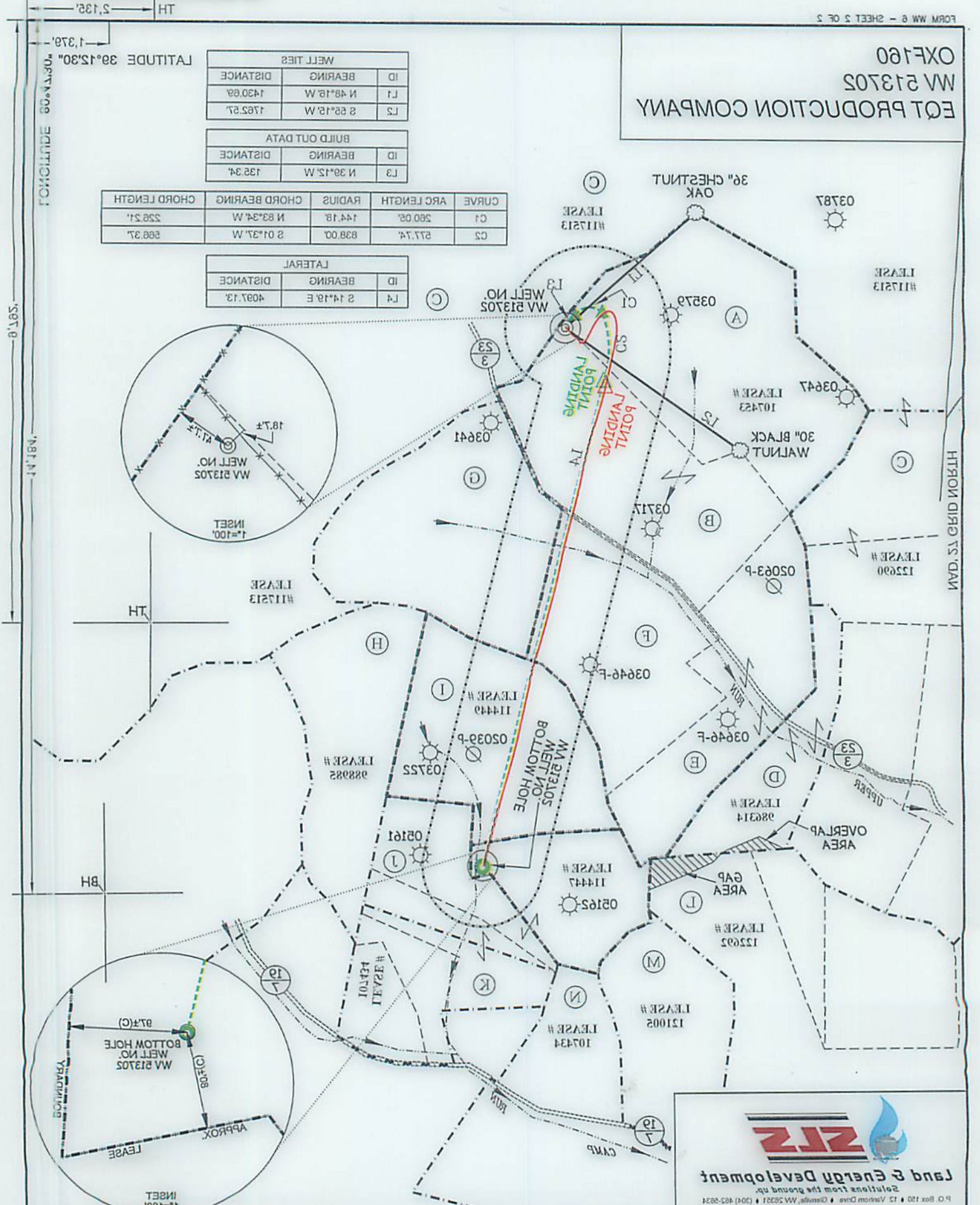
EQ1 PRODUCTION COMPANY
 WV 513705
 OXF160

CURVE			
ID	BEARING	DISTANCE	CHORD LENGTH
C1	N 83°34' W	144.18	280.05
C2	S 01°37' W	838.00	837.74
C3	N 39°12' W	135.34	135.21

BUILD OUT DATA			
ID	BEARING	DISTANCE	CHORD LENGTH
L3	N 39°12' W	135.34	135.21

LATERAL			
ID	BEARING	DISTANCE	CHORD LENGTH
L4	S 14°19' E	403.13	403.13

WELL TIES			
ID	BEARING	DISTANCE	CHORD LENGTH
L1	N 48°18' W	143.89	143.89
L2	S 82°18' W	178.27	178.27



SEZ
 Land & Energy Development
 Solutions from the ground up.
 P. O. Box 150 • 173 Victoria Drive • Glenview, WV 26031 • (204) 463-8934
 www.sezenergy.com

NO. STATE COUNTY PERMIT
 WELL # 47-017-06771H
 AP1
 OPERATORS WELL NO. WV 513705
 REVISED 04/08/16 & 12/15/16
 DATE MARCH 24, 2016
 SCALE 1" = 1000'

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 15-12-16
 C. R. MOYERS
 WEST VIRGINIA
 STATE OF
 No. 849
 LICENSED SURVEYOR

DESIGNATED AGENT
 REX C. RAY
 ADDRESS
 115 PROFESSIONAL PLACE
 BRIDGEPORT, WV 26330
 PERMIT
 COUNTY NAME
 STATE
 PERMITS

WELL OPERATOR
 EQ1 PRODUCTION COMPANY
 ADDRESS
 115 PROFESSIONAL PLACE
 P. O. BOX 280
 BRIDGEPORT, WV 26330
 COUNTY STATE PERMIT

COMPLIANCE

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