

**HEAVEN HILL 3 LEASE  
WELL 2HM  
TUG HILL OPERATING**

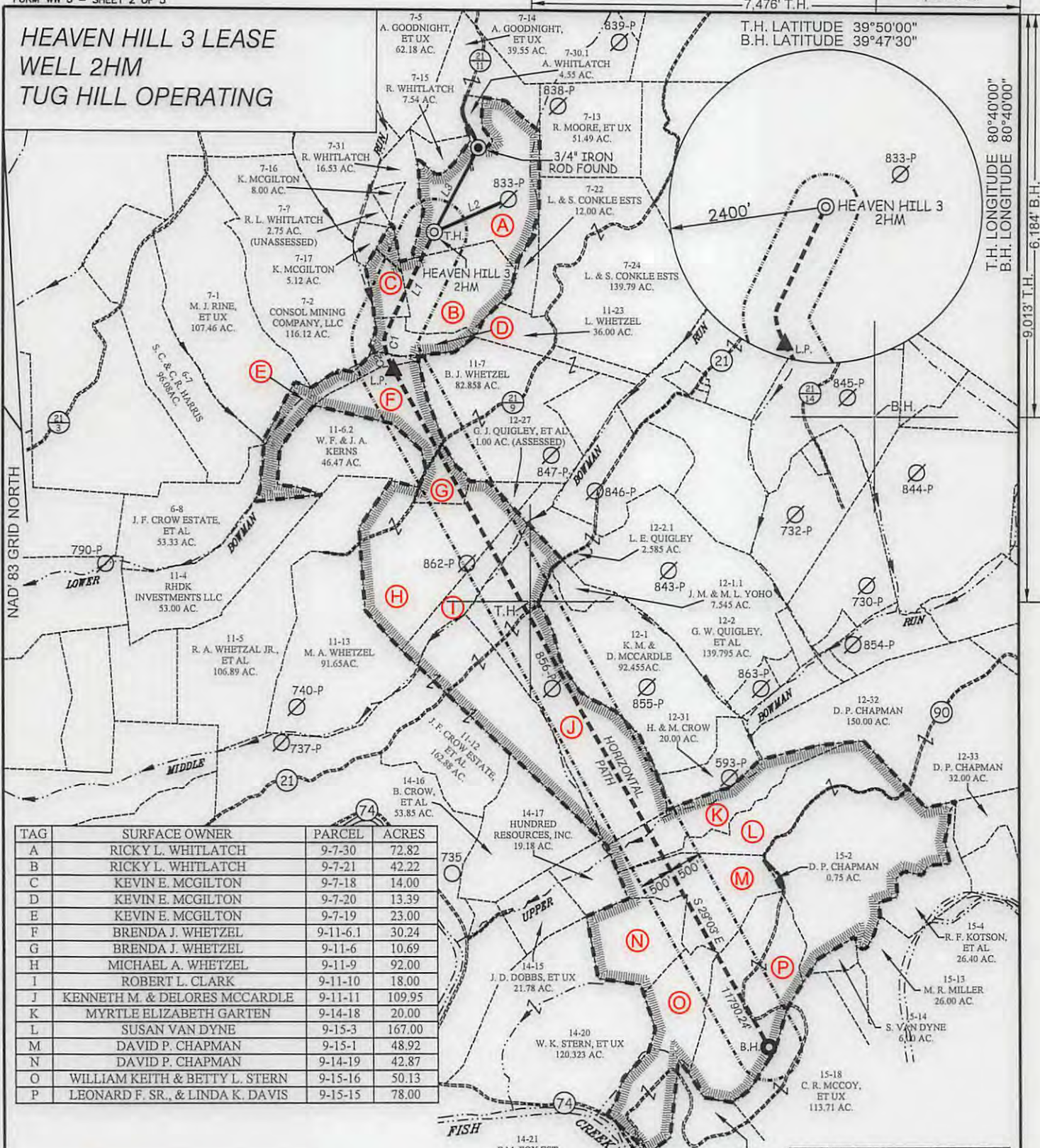
7,476' T.H. 2,207' B.H.

T.H. LATITUDE 39°50'00"  
B.H. LATITUDE 39°47'30"

T.H. LONGITUDE 80°40'00"  
B.H. LONGITUDE 80°40'00"

6,184' B.H.

NAD'83 GRID NORTH



TAG	SURFACE OWNER	PARCEL	ACRES
A	RICKY L. WHITLATCH	9-7-30	72.82
B	RICKY L. WHITLATCH	9-7-21	42.22
C	KEVIN E. MCGILTON	9-7-18	14.00
D	KEVIN E. MCGILTON	9-7-20	13.39
E	KEVIN E. MCGILTON	9-7-19	23.00
F	BRENDA J. WHETZEL	9-11-6.1	30.24
G	BRENDA J. WHETZEL	9-11-6	10.69
H	MICHAEL A. WHETZEL	9-11-9	92.00
I	ROBERT L. CLARK	9-11-10	18.00
J	KENNETH M. & DELORES MCCARDLE	9-11-11	109.95
K	MYRTLE ELIZABETH GARTEN	9-14-18	20.00
L	SUSAN VAN DYNE	9-15-3	167.00
M	DAVID P. CHAPMAN	9-15-1	48.92
N	DAVID P. CHAPMAN	9-14-19	42.87
O	WILLIAM KEITH & BETTY L. STERN	9-15-16	50.13
P	LEONARD F. SR., & LINDA K. DAVIS	9-15-15	78.00

LINE	BEARING	DISTANCE
L1	S 25°20' W	1722.51'
L2	N 66°12' E	1244.40'
L3	N 27°40' E	1446.57'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	190.68'	343.96'	S 03°57' W	188.25'
C2	390.7'	1144.12'	S 20°08' E	388.81'

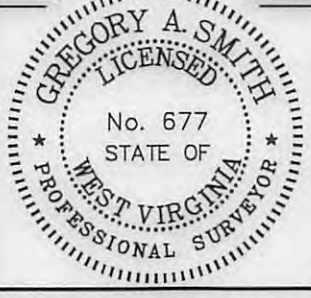
**SLS**  
Land & Energy Development  
Solutions from the ground up.  
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26351 • (304) 462-5634  
www.slsurveys.com

*ju*  
7/5/17

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
NAD'83 S.P.C.(FT) N. 478,856.74 E. 1,633,284.15  
NAD'83 GEO. LAT-(N) 39.808592 LONG-(W) 80.693278  
NAD'83 UTM (M) N. 4,406,558.15 E. 526,254.70

**LANDING POINT**  
NAD'83 S.P.C.(FT) N. 476,746.9 E. 1,632,669.1  
NAD'83 GEO. LAT-(N) 39.802778 LONG-(W) 80.695371  
NAD'83 UTM (M) N. 4,405,912.2 E. 526,077.8

**BOTTOM HOLE**  
NAD'83 S.P.C.(FT) N. 466,439.2 E. 1,638,391.8  
NAD'83 GEO. LAT-(N) 39.774689 LONG-(W) 80.674520  
NAD'83 UTM (M) N. 4,402,801.1 E. 527,874.0



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

SCALE 1" = 2000' FILE NO. 8654P2HM.dwg  
DATE JUNE 30, 20 17  
REVISED \_\_\_\_\_, 20 \_\_\_\_\_  
OPERATORS WELL NO. HEAVEN HILL 3-2HM  
API WELL NO. 47 — 051 — 01962  
STATE COUNTY 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
- TAX MAP-PARCEL
- LEASE # (SEE PGS. 3,4,5)
- SURFACE OWNER (SEE TABLE)

10/27/2017

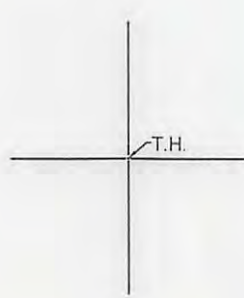
WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107  
DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

COUNTY NAME PERMIT

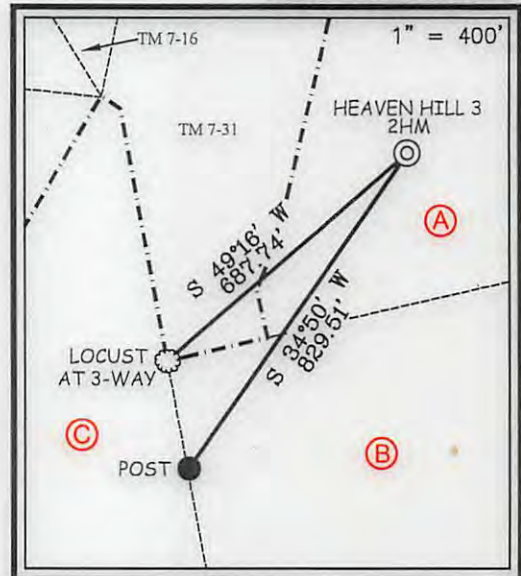
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WELL 2HM  
TUG HILL OPERATING**

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**REFERENCES**



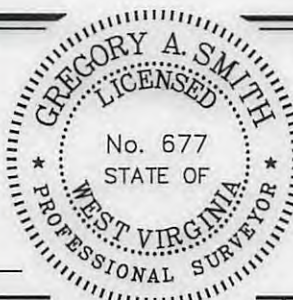
**NOTES ON SURVEY**

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'



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*



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OPERATORS WELL NO. HEAVEN HILL 3-2HM  
API WELL NO. 47 - 051 - 01962  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P2HM.dwg  
SCALE 1" = 2000'  
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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

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

LOCATION: ELEVATION GROUND = 1,341.3' PROPOSED = 1,326.35' WATERSHED LOWER BOWMAN RUN OF FISH CREEK (HUC 10)  
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER RICKY L. WHITLATCH ACREAGE 72.82±  
ROYALTY OWNER RICKY L. WHITLATCH, ET AL - SEE PGS. 3, 4 & 5 ACREAGE 72.82±

PROPOSED WORK: 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 TVD: 6,876' / TMD: 19,298'

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