

Latitude: 39°45'00"

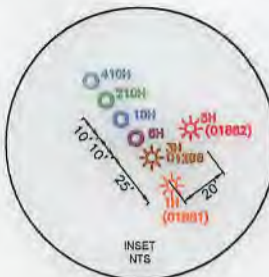
SURFACE HOLE 11258'

Latitude: 39°45'00" BOTTOM HOLE 546'

**JACKSON SURVEYING
INC.**
2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
304-623-5851

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 61°54'30" W	2725.05'	SHL TO LANDMARK	CNR FENCE POST
L2	S 27°17'14" E	530.18'	SHL TO LANDMARK	LARGE STONE
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 54°24'56" E	2729.82'	3102.55'	SHL TO LPL

SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,398,293.614	EASTING: 532,273.344
LANDING POINT (LPL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,398,777.787	EASTING: 532,950.017
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,396,360.993	EASTING: 535,546.802



GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



WELL RESTRICTIONS

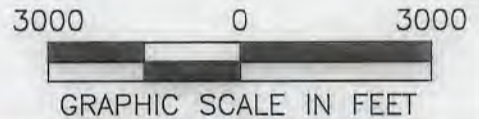
1. NO OCCUPIED DWELLINGS > 2500 SQ. FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ. FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708 *David L Jackson*



COMPANY: **SWN** Production Company, LLC

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	COMPANY: SHAWN HARLAN MSH OPERATOR'S WELL #: 410H API WELL #: 47 051 02271 STATE COUNTY PERMIT
---	--	---

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

WATERSHED: LAUREL RUN OF FISH CREEK (HUC-10) ELEVATION: 1391.3' STAKED

DISTRICT: LIBERTY COUNTY: MARSHALL QUADRANGLE: LITTLETON

SURFACE OWNER: SCOTT L. HARLAN AND SHAWN HARLAN ACREAGE: 126.15

OIL & GAS ROYALTY OWNER: SEE (1) IN WELL BORE TABLE ON PAGE 2 ACREAGE: 126.15

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,486 TVD 19,772 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY
 ADDRESS: 1300 FORT PIERPONT RD. SUITE 200 ADDRESS: 1300 FORT PIERPONT RD. SUITE 200
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508


LEGEND:	REVISIONS:	DATE:
<ul style="list-style-type: none"> PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD LPL: LANDING POINT LOCATION EXISTING WATER WELL EXISTING SPRING 	<ul style="list-style-type: none"> SURVEYED BOUNDARY DRILLING UNIT LEASE BOUNDARY PROPOSED PATH 	07-23-2019 DRAWN BY: N. MANO SCALE: 1" = 3000' DRAWING NO: WELL LOCATION PLAT

JACKSON SURVEYING INC.

2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
304-623-5851

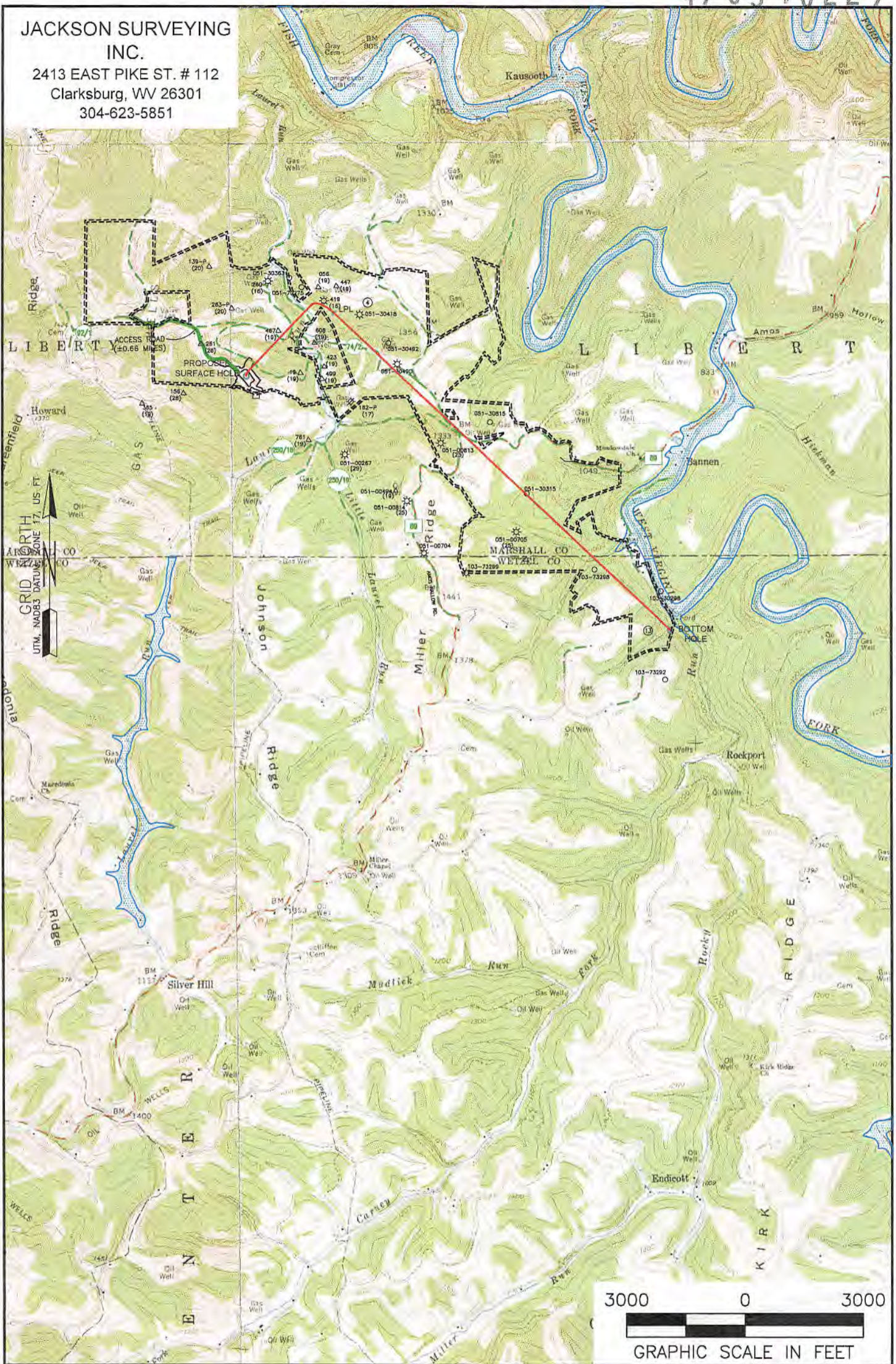
WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	SCOTT L. HARLAN & SHAWN D. HARLAN (S) JANET E. WILBUR A/K/A JANET T. WILBUR, A/K/A JANET E. TEAGARDEN WILBUR, DAVID A. TEAGARDEN, EVA T. STALKER (EVA T. STALKER, TRUSTEE OF THE EVA T. STALKER TRUST, DATED DECEMBER 28, 1989), JEANNE G. DECLUE (THE JEANNE GOVRO DE CLUE, REVOCABLE LIVING TRUST UDT JULY 9, 2001), STEPHEN E. JUSTMAN, HAYHURST COMPANY (CHESTNUT HOLDINGS, INC.), JACK HAMMERS, PAUL HAMMERS, TWILA ORA WHIPKEY (TWILA ORA WHIPKEY TRUST DATED 8/25/1999, WESBANCO BANK WHEELING, TRUSTEE), TONI JO MASON, ERICA M. MASON, O.E. BURGE (ONWARD E. BURGE, SARAH L. BURGE AND STEPHEN W. BURGE, TRUSTEES OF THE ONWARD E. BURGE TRUST DATED JUNE 21, 2010 & SARAH L. BURGE, ONWARD E. BURGE AND STEPHEN W. BURGE, TRUSTEES OF THE SARAH L. BURGE TRUST DATED JUNE 21, 2010), A.L. EVANS AND RACHEL EVANS, (DONNA K. ALLEN, MARY LOU KITTELBERGER, DEBRA A. LKAVEC AND JOHN D. LKAVEC, NANCY JO BLOCK, CHAD E. LONGFELLOW, HOLLY A. LONGFELLOW, TRACY L. BARNBY, LLOYD R. EVANS, GLORIA STINE, ROBERT W. CUBBAGE, CLIFFORD CUBBAGE, ROBERT W. CUBBAGE, KAREN CUBBAGE, DALE E. WORKMAN, SANDRA E. RUSH, ERMA NELDA JEFFERSON, LAURA K. BAKER, DEBORAH A. COLLINS, PATTY D. JEFFERSON, JOYCE L. LAMB, STACY L. LYONS CARLA CARSWELL DAVIS, MEL TODD CARSWELL, JENNIFER CARSWELL BRIERE, FRANK K. BONACICH, JR., JEAN J. MEIER, HOWARD RAY FURBEE, ROBERT DALE FURBEE, DOROTHY EVANS, ELLEN G. KIRKBRIDE, DARLENE KAY ALBORN, MARLENE FAY WAGMILLER, ELMER DEAN EVANS, JACK HAMMERS, PAUL HAMMERS, TWILA ORA WHIPKEY TRUST DATED 8/25/1999, WESBANCO BANK WHEELING, TRUSTEE, TONI JO MASON, ERICA MASON, O.E. BURGE AND SARAH LOU BURGE, H/W AND STEPHEN BURGE, (CHESTNUT HOLDINGS). (R)	07-28-01
TRACT	SURFACE OWNER	TAX PARCEL
2	C. MICHAEL BLAIR & LINDA L. BLAIR (S)	07-18-09
3	M. ZACHARY BLAIR (S)	07-19-35
4	JOHN M. HORNER & TERESA L. HORNER (S)	07-19-36
5	JAMES E. MORGAN-LIFE (S)	07-28-03
6	JAMES E. MORGAN-LIFE (S)	07-28-04
7	JAMES E. MORGAN-LIFE (S)	07-26-14
8	JOHN E. RIGGS JR. & DALENA RIGGS (S)	07-27-02
9	JOSEPH L. SCHANCK & KATHERINE SCHANCK (S)	07-27-18
10	EDWARD E. WADE JR. (S)	07-27-20
11	BRIAN T. FERDA & VI-EVA FERDA (S)	01-02-04
12	BRIAN T. FERDA, ET UX (S)	07-27-15
13	STEPHEN ROSS MCINTYRE (S)	01-02-05

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	MASON DIXON FARMS, LLC	07-18-07
B	LLOYD A. KARR, ET UX	07-19-33
C	JOHN M. HORNER & TERESA L. HORNER	07-19-32
D	MARY L. CHAMBERS	07-19-31
E	JOHN M. HORNER & TERESA L. HORNER	07-19-30.1
F	JENNIFER L. ROMARK TRUST, ET AL	07-19-38
G	M. PEGGY GRIBBEN REVOCABLE LIVING TRUST	07-19-29
H	M. PEGGY GRIBBEN REVOCABLE LIVING TRUST	07-19-28
I	WEST VIRGINIA WILDLIFE RESOURCES SECTION	07-24-01
J	SAMUEL C. WADE & ROSE V. BLAKE	07-27-2.3
K	JOHN E. RIGGS, JR. & DELENA RIGGS	07-27-01
L	CHARLES E. HORNER, ET UX	07-26-10
M	HOWARD L. DEBOLD, ET AL	07-27-2.2
N	IRENE PYLES & DALE PYLES-LIFE	07-27-03
O	JOHN E. RIGGS & DALENA RIGGS	07-27-2.1
P	IRENE PYLES & DALE PYLES	07-27-3.1
Q	BETTY T. FRANKLIN	07-27-05
R	JOSEPHINE PARRIOTT, ET AL	07-27-09
S	ANNIE L. GEHO EST.	07-27-21
T	WV WILDLIFE RESOURCES SECTION	07-27-17
U	BRIAN T. FERDA, ET UX	07-27-16
V	SCOTT M. FITZSIMMONS, ET AL	07-27-14
W	PETER V. VELLEKOOP, ET UX	07-27-13
X	WILLIAM BALTZ, TR. OF VH & F CLUB, ET AL	01-02-5.1
Y	LARRY RINE, ET AL	P/O 01-02-08
Z	BRIAN T. FERDA & VI-EVA FERDA	01-02-13
AA	EDWARD E. WADE JR.	01-02-14
BB	FLOYD B. JOHNSON	01-02-02
CC	VICENZO MICELI, ET UX	07-28-06
DD	MATTHEW ALLAN RICHMOND	07-28-05
EE	MASON DIXON FARMS, LLC.	07-28-02
FF	CARL R. RICHMOND & EILENE R. RICHMOND	07-28-13
GG	G. DAVID EVICK	07-28-14
HH	JAMES E. MOGAN-LIFE	07-29-04
II	C. MICHAEL BLAIR & LINDA L. BLAIR	07-18-9.1
JJ	RONALD K. NEELY & DONA L. NEELY	07-18-10
KK	HOY GLENN CROW, ET UX	07-18-11
LL	MASON DIXON FARMS, LLC	07-18-8.1
MM	BERNARD P. TWIGG AND SHARON ANN TWIGG	07-18-08

REVISIONS:	COMPANY:		
	OPERATOR'S	SHAWN HARLAN MSH	
	WELL #:	410H	
	DISTRICT:	COUNTY:	STATE:
	LIBERTY	MARSHALL	WV
			DATE: 07-23-2019
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 2

**JACKSON SURVEYING
INC.**

2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
304-623-5851



NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL ✗ LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: SHAWN HARLAN MSH	WELL # 410H	SERIAL #
ADDRESS: 1300 FORT PIERPONT RD. SUITE 200 MORGANTOWN, WV 26508	COUNTY - CODE MARSHALL - 051	DISTRICT; LIBERTY	
SURFACE OWNER: SCOTT L. HARLAN AND SHAWN HARLAN	USGS 7 1/2 QUADRANGLE MAP NAME LITTLETON		