

Latitude: 39°45'00"(SH)

SURFACE HOLE 1,487'

Latitude: 39°45'00"(BH)

BOTTOM HOLE 9272'

# JACKSON SURVEYING INC.

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

### SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,397,192.013  
EASTING: 528,114.160

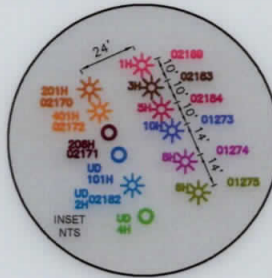
### LANDING POINT (LPL):

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,399,405.636  
EASTING: 528,271.495

### BOTTOM HOLE LOCATION (BHL):

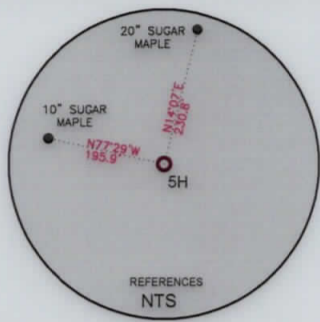
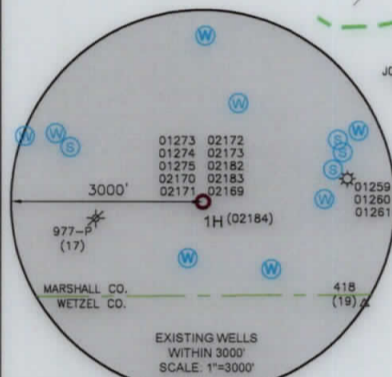
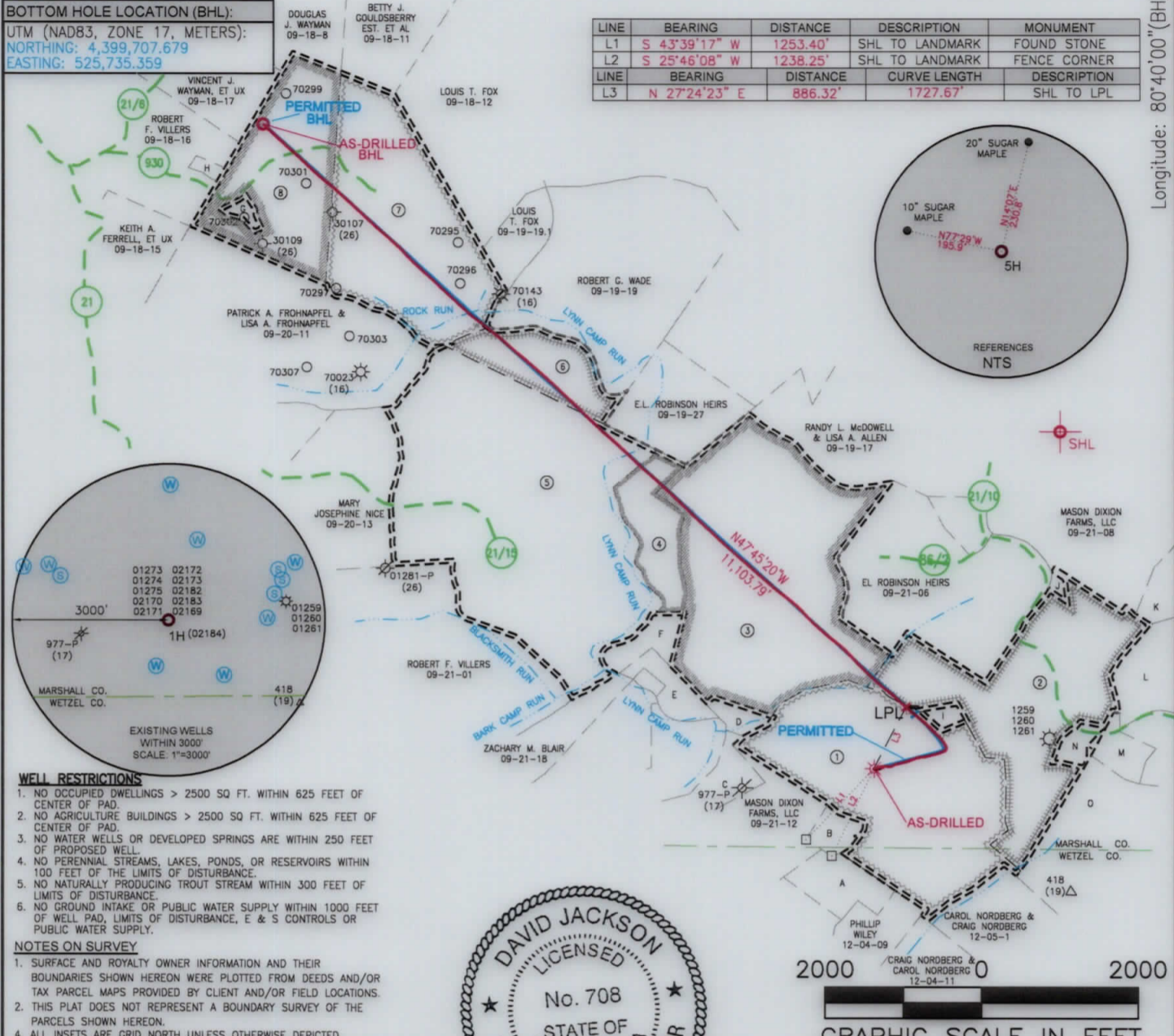
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,399,707.679  
EASTING: 525,735.359

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



<b>SURFACE HOLE LOCATION (SHL):</b>	
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,397,192.032 EASTING: 528,114.022	
<b>LANDING POINT LOCATION (LPL):</b>	
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,399,431.861 EASTING: 528,238.371	
<b>BOTTOM HOLE LOCATION (BHL):</b>	
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,399,707.210 EASTING: 525,732.928	

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 43°39'17" W	1253.40'	SHL TO LANDMARK	FOUND STONE
L2	S 25°46'08" W	1238.25'	SHL TO LANDMARK	FENCE CORNER
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 27°24'23" E	886.32'	1727.67'	SHL TO LPL



### 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.

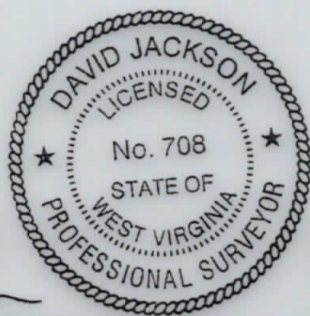
### NOTES ON SURVEY

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.
3. 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

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

WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SURVEY SOURCE OF GRADE ELEVATION: GPS (NAVD 88, US FT)

ARTHUR WARYCK MSH

OPERATOR'S WELL #: 5H

API WELL #: 47 051 02184

STATE COUNTY PERMIT

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

WATERSHED: LYNN CAMP RUN OF FISH CREEK (HUC-10) ELEVATION: 1326.3'

DISTRICT: MEADE COUNTY: MARSHALL QUADRANGLE: WILEYVILLE, WV

SURFACE OWNER: A. MICHAEL WARYCK & DEBORAH ELLEN WARYAK ACREAGE: ±125.39

OIL & GAS ROYALTY OWNER: CHARLES W. CAIN & PEARL CAIN ACREAGE: ±125.39

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,127 TVD 18,733 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

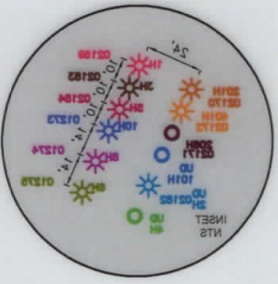
DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

<b>LEGEND:</b>	— SURVEYED BOUNDARY	<b>REVISIONS:</b>	<b>DATE:</b> 03-24-2020
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT		
⊙ EXISTING / PRODUCING WELLHEAD	— LEASE BOUNDARY		
LPL* LANDING POINT LOCATION	— ASDRILLED PATH		
⊙ EXISTING WATER WELL	— PROPOSED PATH		
⊙ EXISTING SPRING			
			<b>DRAWN BY:</b> N. MANO
			<b>SCALE:</b> 1" = 2000'
			<b>DRAWING NO:</b>
			<b>WELL LOCATION PLAT</b>

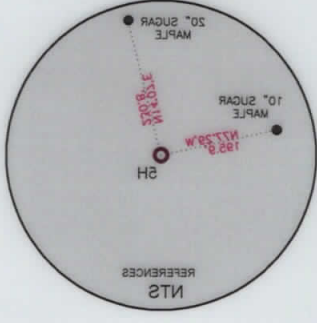
**JACKSON SURVEYING INC.**  
 2413 EAST PIKE ST. # 112  
 Clarkspurg, Wv 26301  
 304-623-8851

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): EASTING: 528,114,180 NORTHING: 4,397,192,013
<b>LANDING POINT (LP):</b>
UTM (NAD83, ZONE 17, METERS): EASTING: 528,217,492 NORTHING: 4,397,402,838
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): EASTING: 525,732,358 NORTHING: 4,399,707,879

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): EASTING: 528,114,022 NORTHING: 4,397,192,022
<b>LANDING POINT LOCATION (LP):</b>
UTM (NAD83, ZONE 17, METERS): EASTING: 528,238,371 NORTHING: 4,397,431,861
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): EASTING: 525,732,928 NORTHING: 4,399,707,210



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	2 43.39.17" W	1253.40'	SHL TO LANDMARK	FOUND STONE
L2	2 52.48.08" W	1238.25'	SHL TO LANDMARK	FENCE CORNER
L3	N 27.24.23" E	886.32'	CURVE LENGTH	DESCRIPTION
			SHL TO LP	



Groundline: 80.40.00.00 (BH) BOTTOM HOLE 9272'  
 Groundline: 80.40.00.00 (SH) SURFACE HOLE 1487'  
 Groundline: 80.40.00.00 (BH) BOTTOM HOLE 1139'  
 Groundline: 80.40.00.00 (SH) SURFACE HOLE 1487'



**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 FIELD LOCATIONS.
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3. ALL INSERTS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.
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*David Jackson*

- WELL RESTRICTIONS**
1. NO OCCUPIED DWELLINGS < 2500 20 FT. WITHIN 825 FEET OF CENTER OF PAD.
  2. NO AGRICULTURE BUILDINGS < 2500 20 FT. WITHIN 825 FEET OF CENTER OF PAD.
  3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
  4. NO PERMANENT STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
  5. NO NATURALLY PRODUCING STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
  6. NO GROUND TAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD. LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

**SWN** Production Company, LLC  
 COMPANY: SWN

ARTHUR WARYCK MSH  
 OPERATOR'S WELL #:

API WELL #: 47  
 STATE: WV COUNTY: MARSHALL PERMIT: 051 02184

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

WATERSHED: LYN CAMP RUN OF FISH CREEK (HUC-10)  
 DISTRICT: MEADE COUNTY: MARSHALL

SURFACE OWNER: A. MICHAEL WARYCK & DEBORAH ELLEN WARYCK  
 OIL & GAS ROYALTY OWNER: CHARLES W. CAIN & PEARL CAIN

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,127 TVD 18,733 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC  
 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200  
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

DESIGNATED AGENT: BRITANNY WOODY  
 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200  
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

REVISIONS: DATE: 03-24-2020

DRAWN BY: N. MANO  
 SCALE: 1" = 2000'  
 DRAWING NO.:  
 WELL LOCATION PLAT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION

OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304

WVDEP

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

ACCURACY: 1/200



MINIMUM DEGREE OF PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAD 88, US FT)

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLS
- LANDING POINT LOCATION
- EXISTING WATER WELL
- EXISTING SPRING
- PROPOSED PATH
- AS DRILLED PATH
- LEASE BOUNDARY
- DRILLING UNIT
- SURVEYED BOUNDARY

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	A. MICHAEL WARYCK & DEBORAH ELLEN WARYCK (S) / CHARLES W. CAIN & PEARL CAIN (R)	09-21-10
TRACT	SURFACE OWNER	TAX PARCEL
2	JANE E. HAFER (S)	09-21-09
3	APPALACHIAN MIDSTREAM SERVICES, LLC (S)	09-21-05
4	APPALACHIAN MIDSTREAM SERVICES, LLC (S)	09-21-03
5	ROSELAND PROPERTY, LLC (S)	09-21-02
6	WSD PROPERTIES, LLC (S)	09-19-20
7	NILA J. FROHNAPFEL (S)	09-18-14
8	CLEMENT E. FROHNAPFEL & BRENDA L. FROHNAPFEL (S)	09-18-13

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	MASON DIXON FARMS, LLC	09-21-11
B	ANORAH C. SCHOSTAG & RYAN U. SCHOSTAG	09-21-10.1
C	ZACHARY M. BLAIR	09-21-13
D	ZACHARY M. BLAIR	09-21-14
E	ZACHARY M. BLAIR	09-21-16
F	ZACHARY M. BLAIR	09-21-04
G	CLEMENT E. FROHNAPFEL & BRENDA FROHNAPFEL	09-18-13.1
H	ROBERT F. VILLERS & APRIL L. VILLERS	09-18-16.4
I	MASON DIXON FARMS, LLC	09-21-22
J	MASON DIXON FARMS, LLC	09-21-9.3
K	MASON DIXON FARMS, LLC	09-29-08
L	MASON DIXON FARMS, LLC	09-29-09
M	MASON DIXON FARMS, LLC	09-29-10
N	STEVE HAFER, ETUX	09-21-9.1
O	MASON DIXON FARMS, LLC	09-29-11

REVISIONS:	COMPANY:		 	
	OPERATOR'S	ARTHUR WARYCK MSH	API #	47-051-02184
	WELL #:	5H	DATE:	03-24-2020
	DISTRICT:	MEADE	COUNTY:	MARSHALL
			STATE:	WV
			DRAWN BY:	N. MANO
			SCALE:	N/A
			DRAWING NO:	
			WELL LOCATION	PLAT 2

WELL LOCATION PLAT 2		DRAWING NO:	DATE: 03-24-2020
SCALE: N/A		DRAWN BY: N. MANO	
STATE: WV		API # 47-021-02184	
COUNTY: MARSHALL		OPERATOR'S ARTHUR WARYCK MSH	
WELL #: 2H		COMPANY: SWN	
DISTRICT: MEADE			
REVISIONS:			

TRACT	SURFACE OWNER	TAX PARCEL
A	MASON DIXON FARMS, LLC	09-21-11
B	ANORAH C. SCHOSTAG & RYAN U. SCHOSTAG	09-21-10.1
C	ZACHARY M. BLAIR	09-21-13
D	ZACHARY M. BLAIR	09-21-14
E	ZACHARY M. BLAIR	09-21-16
F	ZACHARY M. BLAIR	09-21-04
G	CLEMENT E. FROHNAPFEL & BRENDA FROHNAPFEL	09-18-13.1
H	ROBERT F. VILLERS & APRIL L. VILLERS	09-18-16.4
I	MASON DIXON FARMS, LLC	09-21-22
J	MASON DIXON FARMS, LLC	09-21-23
K	MASON DIXON FARMS, LLC	09-29-08
L	MASON DIXON FARMS, LLC	09-29-09
M	MASON DIXON FARMS, LLC	09-29-10
N	STEVE HAFER, ETUX	09-21-21
O	MASON DIXON FARMS, LLC	09-29-11

TRACT	SURFACE OWNER	TAX PARCEL
1	A. MICHAEL WARYCK & DEBORAH ELLEN WARYCK (2) \ CHARLES W. CAIN & PEARL CAIN (R)	09-21-10
2	JANE E. HAFER (2)	09-21-09
3	APPALACHIAN MIDSTREAM SERVICES, LLC (2)	09-21-05
4	APPALACHIAN MIDSTREAM SERVICES, LLC (2)	09-21-03
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WELL BORE TABLE FOR SURFACE \ ROYALTY OWNERS

ADJOINING OWNERS TABLE