

**HUDSON S LEASE
UTICA UNIT - 394.63 AC±
WELL 12HU
TUG HILL OPERATING**

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

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-2-9.1	CONSOLIDATION COAL CO.	1.00
9-2-9.2	CONSOLIDATION COAL CO.	1.00
9-3-1.2	CONSOLIDATION COAL CO.	1.00
9-5-6.9	CNX LAND CO. LLC	22.39
9-5-13	SHELLY ANN JORDAN	5.51
9-8-13	LARRY LEE CONKLE SR ET UX	24.03
9-8-13.1	LARRY LEE CONKLE SR ET UX	1.666
9-8-13.2	TERESA & MICHAEL HUGHES	3.582
9-8-13.3	CASSANDRA A. & JAMES R. DOWNES	3.22

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

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

NAD'83 S.P.C.(FT)	N. 486,116.50	E. 1,639,157.22
NAD'83 GEO.	LAT-(N) 39.828733	LONG-(W) 80.672711
NAD'83 UTM (M)	N. 4,408,799.78	E. 528,006.99

LANDING POINT

NAD'83 S.P.C.(FT)	N. 486,815.5	E. 1,637,714.6
NAD'83 GEO.	LAT-(N) 39.830800	LONG-(W) 80.677880
NAD'83 UTM (M)	N. 4,409,005.4	E. 527,563.9

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 475,944.8	E. 1,643,748.6
NAD'83 GEO.	LAT-(N) 39.800974	LONG-(W) 80.655898
NAD'83 UTM (M)	N. 4,405,724.3	E. 529,457.6

AS DRILLED COORDINATES FOR WELL NO. 12HU

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

NAD'83 S.P.C.(FT)	N. 486,116.50	E. 1,639,157.22
NAD'83 GEO.	LAT-(N) 39.828733	LONG-(W) 80.672711
NAD'83 UTM (M)	N. 4,408,799.78	E. 528,006.99

LANDING POINT

NAD'83 S.P.C.(FT)	N. 486,787.0	E. 1,637,725.5
NAD'83 GEO.	LAT-(N) 39.830467	LONG-(W) 80.677839
NAD'83 UTM (M)	N. 4,408,990.6	E. 527,567.5

BOTTOM HOLE

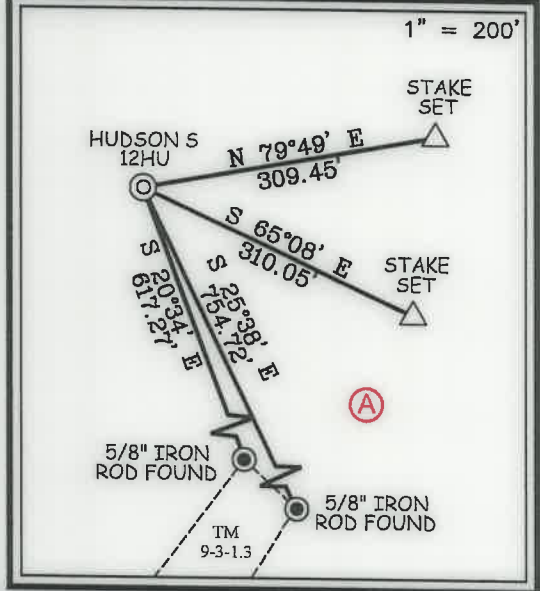
NAD'83 S.P.C.(FT)	N. 475,945.8	E. 1,643,750.5
NAD'83 GEO.	LAT-(N) 39.800976	LONG-(W) 80.655891
NAD'83 UTM (M)	N. 4,405,724.6	E. 529,458.1

NOTES ON SURVEY

- 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.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF HUDSON S-12HU (47-051-02292) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF HUDSON S-11HU (47-051-02296), HUDSON S-13HU (47-051-02293), HUDSON S-14HU (47-051-02327), HUDSON S-15HU (47-051-02328), HUDSON S-16HU (47-051-02329), FITZGERALD S-17HU (47-051-02324), FITZGERALD S-18HU (47-051-02325), FITZGERALD S-19HU (47-051-02326), TEN HIGH 1N-20HU (47-051-02021), TEN HIGH 1S-17HU (47-051-02033).
- MINIMUM OFFSET SPACING REQUIREMENTS EXEMPTED BY WAIVER WITH THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS AND OFFSET LEASEHOLDER AGREEMENTS AS PROVIDED BY TUG HILL OPERATING.
- WVDOH/DOH OWNERSHIP WITHIN UNIT SET FORTH IN WW-6A1.
- PLAT UPDATED TO SHOW AS DRILLED PATH.
- AS DRILLED DATA PROVIDED BY TUG HILL OPERATING.

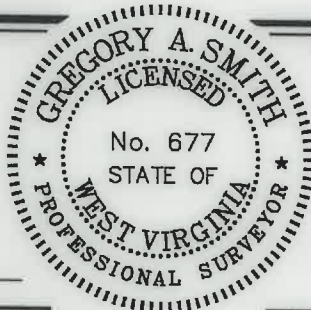


REFERENCES



12 Vashon Drive | P.O. Box 150 | Glenville, WV 26031 | 304.482.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.285.5296
slsvv.com

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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE SEPTEMBER 30, 20 22
REVISED _____
OPERATORS WELL NO. HUDSON S-12HU
API WELL NO. 47 - 051 - 02292
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911P12HUAD.dwg
HUDSON S-12HU REV8
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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 = 1,370.20' ELEVATION PROPOSED = 1,344.81' WATERSHED GRAVE CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CNX LAND LLC ACREAGE 106.935±
ROYALTY OWNER CHARLENE L. BAKER, ET AL ACREAGE 106.935±

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) _____ TARGET FORMATION POINT PLEASANT
ESTIMATED DEPTH TVD: 11,923' / TMD: 24,826'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN - CT CORPORATION
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5098 WASHINGTON ST. W, STE 407
FORT WORTH, TX 76107 CHARLESTON, WV 25313-1561

COUNTY NAME
PERMIT

10/21/2022

HUDSON S LEASE UTICA UNIT - 394.63 AC± WELL 12HU TUG HILL OPERATING

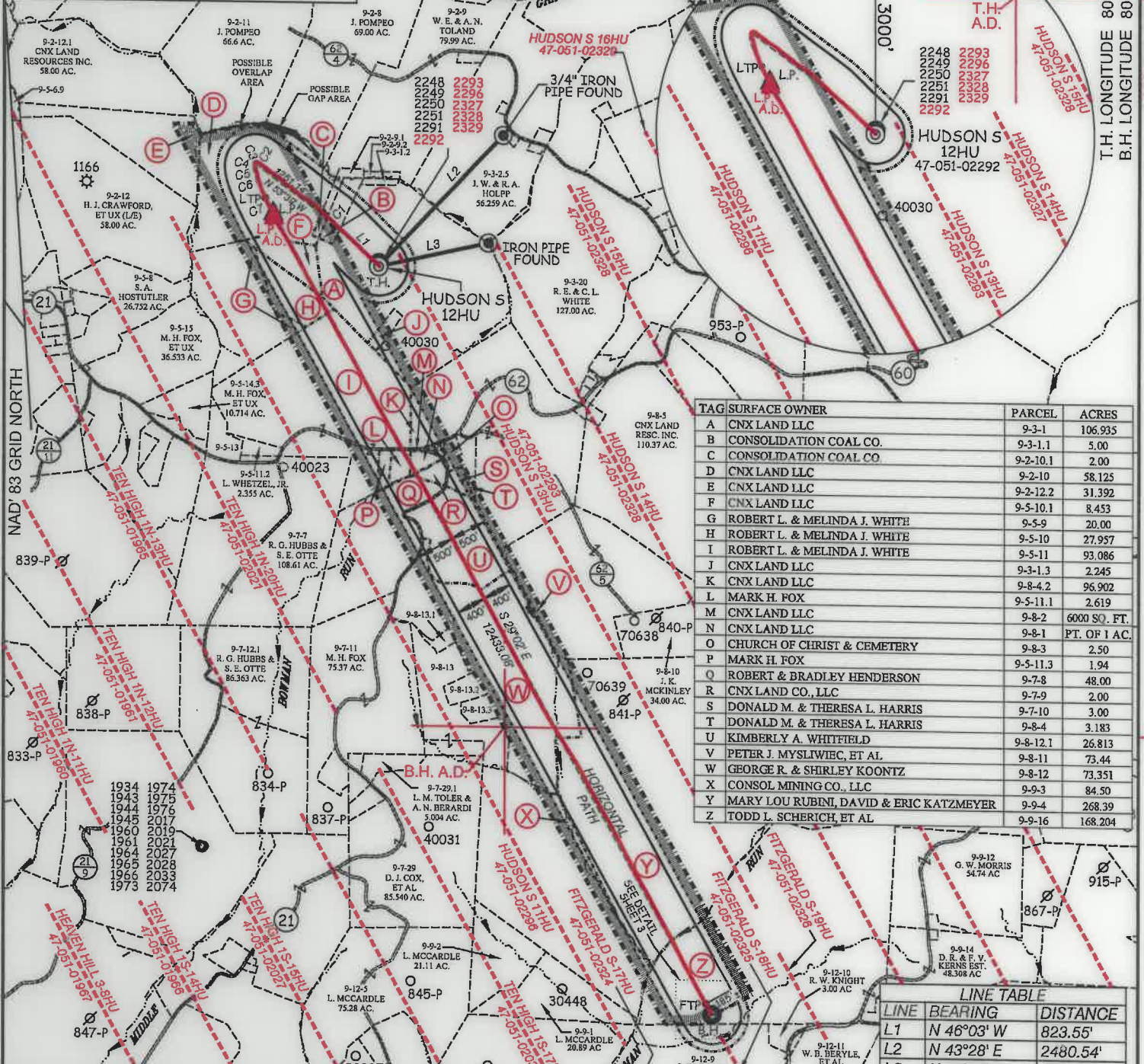
LEGEND

AS DRILLED ———

PROPOSED - - - - -

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

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"



TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	CONSOLIDATION COAL CO.	9-3-1.1	5.00
C	CONSOLIDATION COAL CO.	9-2-10.1	2.00
D	CNX LAND LLC	9-2-10	58.125
E	CNX LAND LLC	9-2-12.2	31.392
F	CNX LAND LLC	9-5-10.1	8.453
G	ROBERT L. & MELINDA J. WHITE	9-5-9	20.00
H	ROBERT L. & MELINDA J. WHITE	9-5-10	27.957
I	ROBERT L. & MELINDA J. WHITE	9-5-11	93.086
J	CNX LAND LLC	9-3-1.3	2.245
K	CNX LAND LLC	9-8-4.2	96.902
L	MARK H. FOX	9-5-11.1	2.619
M	CNX LAND LLC	9-8-2	6000 SQ. FT.
N	CNX LAND LLC	9-8-1	PT. OF 1 AC.
O	CHURCH OF CHRIST & CEMETERY	9-8-3	2.50
P	MARK H. FOX	9-5-11.3	1.94
Q	ROBERT & BRADLEY HENDERSON	9-7-8	48.00
R	CNX LAND CO., LLC	9-7-9	2.00
S	DONALD M. & THERESA L. HARRIS	9-7-10	3.00
T	DONALD M. & THERESA L. HARRIS	9-8-4	3.183
U	KIMBERLY A. WHITFIELD	9-8-12.1	26.813
V	PETER J. MYSLIWIEC, ET AL.	9-8-11	73.44
W	GEORGE R. & SHIRLEY KOONTZ	9-8-12	73.351
X	CONSOL MINING CO., LLC	9-9-3	84.50
Y	MARY LOU RUBINI, DAVID & ERIC KATZMEYER	9-9-4	268.39
Z	TODD L. SCHERICH, ET AL.	9-9-16	168.204

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 46°03' W	823.55'
L2	N 43°28' E	2480.54'
L3	N 77°19' E	1543.21'

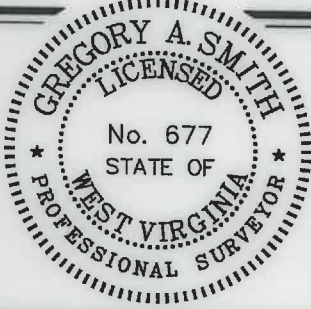
CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	59.00'	522.73'	N 50°49' W	58.97'
C2	37.60'	96.71'	N 63°23' W	37.36'
C3	23.80'	19.76'	S 64°47' W	22.39'
C4	37.15'	81.23'	S 07°17' W	36.83'
C5	89.81'	464.62'	S 11°45' E	89.67'
C6	173.17'	1673.70'	S 20°14' E	173.09'
C7	415.13'	4051.67'	S 26°17' E	414.95'



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 slsww.com

P.S. 677 *Gregory A. Smith*



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

LEGEND

- UNIT BOUNDARY
- LEASED TRACTS INSIDE
- UNIT BOUNDARY
- SURFACE LINE
- PROPOSED UTICA
- WELL LATERAL
- 400' OFFSET LINE
- 500' OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- PROPOSED FIRST TAKE POINT
- PROPOSED LAST TAKE POINT
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE ADDITIONAL SHEETS)

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SCALE 1" = 2000' FILE NO. 8911P12HUAD.dwg
 HUDSON S-12HU REV8

DATE SEPTEMBER 30, 2022
 REVISED

OPERATORS WELL NO. HUDSON S-12HU
 API WELL 47 — 051 — 02292
 NO. STATE COUNTY PERMIT

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

WELL OPERATOR TUG HILL OPERATING, LLC
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
 FORT WORTH, TX 76107

DESIGNATED AGENT DARREN BROWN - CT CORPORATION
 ADDRESS 5098 WASHINGTON ST. W, STE 407
 CHARLESTON, WV 25313-1561

10/21/2022

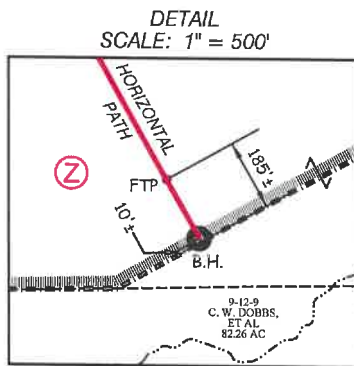
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sllwv.com

NO.	Lease ID	Parcel	Tags	Grantor, Lessor, Etc.	Deed Book/Page	
1	10*26041	9-3-1	A	FREDDIE C WHITE AND VIOLET L WHITE, ET AL	728	527
2	10*26044	9-3-1.1	B	JOYCE A WALLACE, ET AL	863	296
3	10*26711	9-2-10.1	C	CNX GAS COMPANY LLC	1074	593
4	10*26001	9-2-10	D	FREDDIE C WHITE AND VIOLET L WHITE	655	555
5	10*26000	9-2-12.2	E	HARRY J CRAWFORD AND DONNA JEAN CRAWFORD, LIFE ESTATE, ET AL	661	156
6	10*26001	9-5-10.1	F	FREDDIE C WHITE AND VIOLET L WHITE	655	555
7	10*26001	9-5-9	G	FREDDIE C WHITE AND VIOLET L WHITE	655	555
8	10*26001	9-5-10	H	FREDDIE C WHITE AND VIOLET L WHITE	655	555
9	10*24424	9-5-11	I	THE FAYE A SKOEN REVOCABLE TRUST	1024	291
10	10*26018	9-3-1.3	J	NANCY L WEST, ET AL	737	248
11	10*47051.109.0	9-8-4.2	K	DONALD M AND THERESA L HARRIS	859	440
12	10*26045	9-5-11.1	L	ROBERT E TOEPFER AND JANATHE RUTH TOEPFER, ET AL	884	631
13	10*47051.061.0	9-8-2	M	VELMA RUTH HARRIS	865	397
14	10*47051.061.0	9-8-1	N	VELMA RUTH HARRIS	865	397
15	10*26113	9-8-3	O	ELDWIN OTIS RINE AND MARY L RINE, ET AL	880	434
16	10*26045	9-5-11.3	P	ROBERT E TOEPFER AND JANATHE RUTH TOEPFER, ET AL	884	631
17	10*26003	9-7-8	Q	ROBERT HENDERSON AND DEBRA HENDERSON, HUSBAND & WIFE, AND BRADLEY HENDERSON	697	215
18	10*47051.061.0	9-7-9	R	VELMA RUTH HARRIS	865	397
19	10*47051.109.0	9-7-10	S	DONALD M AND THERESA L HARRIS	859	440
20	10*28092	9-8-4	T	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	1073	370
21	10*47051.208.0	9-8-12.1	U	SHIRLEY KOONTZ POA KELLI KOONTZ BENLINE	869	222
22	10*22745	9-8-11	V	BONNIE J JENKINS, ET AL	968	288
23	10*47051.208.0	9-8-12	W	SHIRLEY KOONTZ POA KELLI KOONTZ BENLINE	869	222
24	10*47051.304.0	9-9-3	X	UNITED BANK INC	905	5
25	10*31001	9-9-4	Y	ERIC KATZMEYER, ET AL	791	226
26	10*19987	9-9-16	Z	LESLEY D BALLA, ET AL	955	103



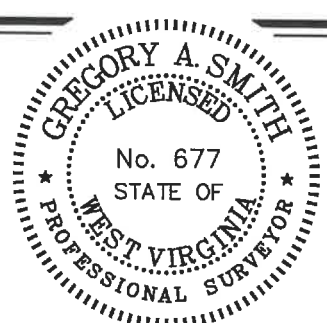
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HUDSON S-12HU REV4

DATE SEPTEMBER 30, 20 22

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API WELL NO. 47 — 051 — 02292
STATE COUNTY PERMIT



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OFFICE OF OIL AND GAS

10/21/2022

P.S. 677 *Gregory A. Smith*

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