

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47-051-02518 County Marshall District Sandhill  
Quad Valley Grove Pad Name Michael Southworth Field/Pool Name \_\_\_\_\_  
Farm name Michael Southworth MSH Well Number 10H  
Operator (as registered with the OOG) SWN Production Company LLC  
Address PO Box 12359 City Spring State TX Zip 77391

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,429,239.758 Easting 532,872.896  
Landing Point of Curve Northing 4,429,288.700 Easting 533,110.305  
Bottom Hole Northing 4,425,213.396 Easting 534,877.929

Elevation (ft) 1,271 GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

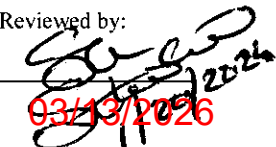
Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
SOBM

RECEIVED  
OFFICE OF OIL AND GAS  
DEC 04 2025

Date permit issued 2024-10-17 Date drilling commenced 2025-01-19 Date drilling ceased 2025-01-31  
Date completion activities began 2025-07-26 Date completion activities ceased 2025-08-22  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 632' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1,403' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 734' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:  
  
9313/2026

API 47-051 - 02518

Farm name Michael Southworth MSH

Well number 10H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	20.000	20.000	136		J-55		Y
Surface	17.500	13.375	823		J-55		Y
Coal							
Intermediate 1	12.250	9.625	2,032		J-55		Y
Intermediate 2							
Intermediate 3							
Production	8.75 / 8.500	5.500	5,594 / 21,463		P-110HP		Y
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	Grout to Surface				Surface	24
Surface	Class A	921	15.6	1.19	0	Surface	8
Coal							
Intermediate 1	Class A	721	15.6	1.18	0	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	4,055	14.5	1.26	0	Surface	24
Tubing							

Drillers TD (ft) 21,458

Loggers TD (ft) 21,458

Deepest formation penetrated Marcellus

Plug back to (ft) 0

Plug back procedure N/A

Kick off depth (ft) 5,672

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

SURFACE: CENTRALIZERS - EVERY THIRD JOINT OF CASING

INTERMEDIATE: CENTRALIZERS - EVERY THIRD JOINT OF CASING

PRODUCTION: CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

*REVISION*  
*05-07-2025*  
**DEC 04 2025**  
*WELLS Department*  
*Performance Evaluation*

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

API 47-051 - 02518 Farm name Michael Southworth MSH Well number 10H

### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE ATTACH				

Please insert additional pages as applicable.

### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbbls)	Amount of Nitrogen/other (units)
	SEE AT							

SEE ATTACHMENT  
 DEC 04 2025  
 AMERICAN ENERGY SERVICES

Please insert additional pages as applicable.

API 47- 051 - 02518 Farm name Michael Southworth MSH Well number 10H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6,391</u> TVD	<u>6,735</u> MD
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 998 psi Bottom Hole 4,801 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 10,876 mcfpd Oil 525 bpd NGL 0 bpd Water 2,163 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

<u>LITHOLOGY/</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND</u>
<u>FORMATION</u>	<u>DEPTH IN FT</u>	<u>DEPTH IN FT</u>	<u>DEPTH IN FT</u>	<u>DEPTH IN FT</u>	<u>TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H<sub>2</sub>S, ETC)</u>
	<u>NAME</u>	<u>TVD</u>	<u>MD</u>	<u>MD</u>	
	<u>0</u>		<u>0</u>		
	SEE ATTACHMENT 3				

Please insert additional pages as applicable.

Drilling Contractor SWN Drilling Company  
 Address PO Box 12395 City Spring State TX Zip 77391-2359

Logging Company Baker Hughes  
 Address 9110 Grogans Mill Road City The Woodlands State TX Zip 77380

Cementing Company Schlumberger  
 Address 110 Schlumberger Drive City Sugar Land State TX Zip 77478

Stimulating Company SWN Drilling Company  
 Address PO Box 12395 City Spring State TX Zip 77391

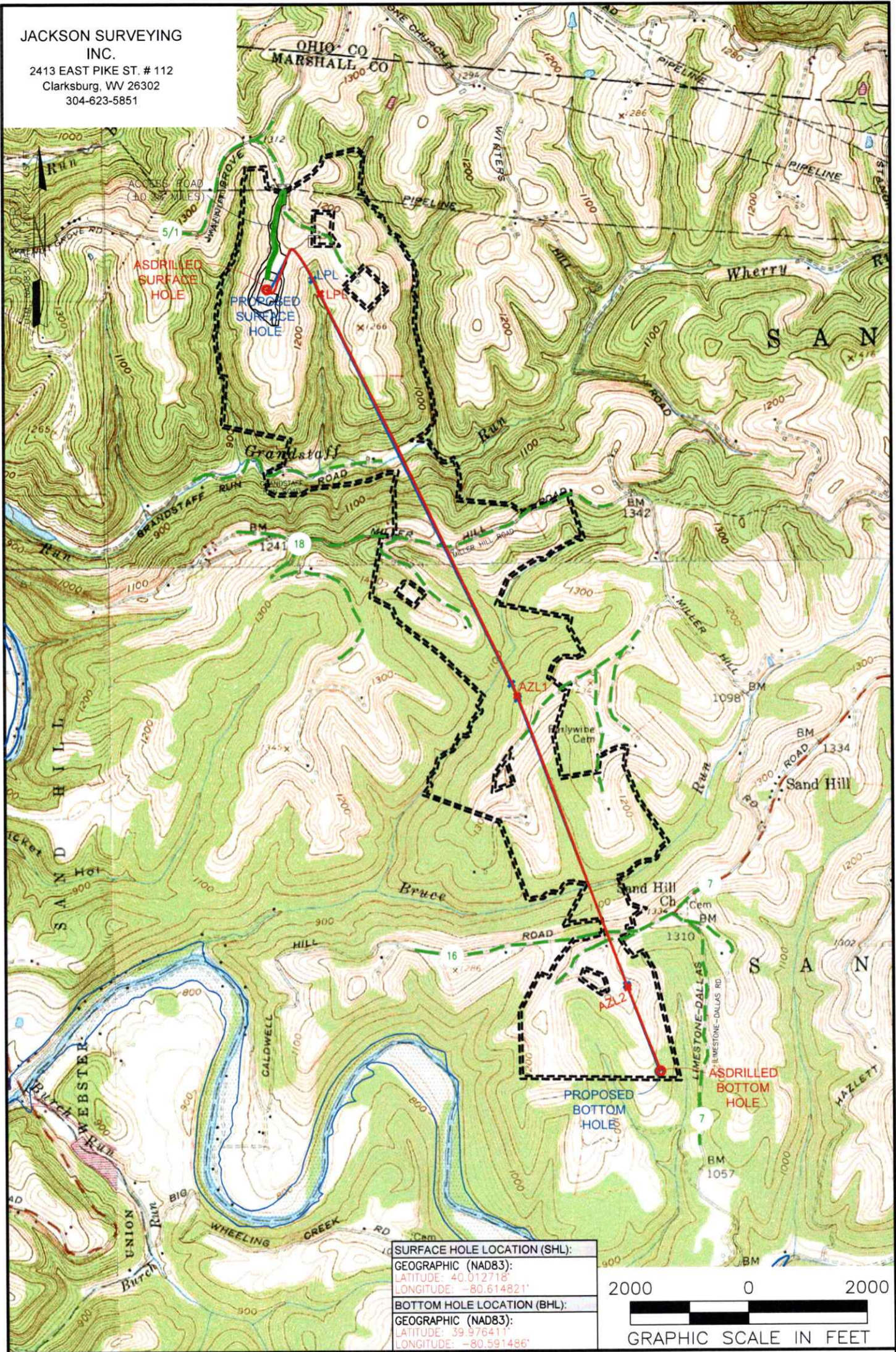
Please insert additional pages as applicable.

Completed by Eric Haskins Telephone 570 290-8837  
 Signature  Title Regulatory Manager Date 12/03/2025

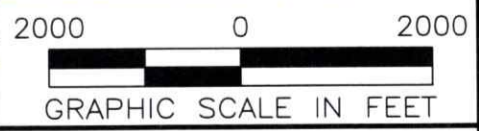
Submission of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

**03/13/2026**

JACKSON SURVEYING  
INC.  
2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851



<b>SURFACE HOLE LOCATION (SHL):</b>
GEOGRAPHIC (NAD83):
LATITUDE: 40.012718°
LONGITUDE: -80.614821°
<b>BOTTOM HOLE LOCATION (BHL):</b>
GEOGRAPHIC (NAD83):
LATITUDE: 39.976411°
LONGITUDE: -80.591486°



**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.

**LEGEND:**

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

03/13/2026

<b>WELL OPERATOR:</b> EXPAND OPERATING LLC	<b>WELL (FARM) NAME:</b> MICHAEL SOUTHWORTH MSH	<b>WELL #</b> 10H	<b>SERIAL #</b>
<b>ADDRESS:</b> 1300 FORT PIERPONT RD. SUITE 200 MORGANTOWN, WV 26508	<b>COUNTY - CODE</b> MARSHALL - 051	<b>DISTRICT;</b> SANDHILL	
<b>SURFACE OWNER:</b> BARRY A. & KIMBERLY S. LITMAN	<b>USGS 7 1/2 QUADRANGLE MAP NAME</b> VALLEY GROVE, WV	<b>API #:</b> 47-051-02518	

Latitude: 40°02'30"

SURFACE HOLE 8,816'

Latitude: 40°00'00"

BOTTOM HOLE 2,284'

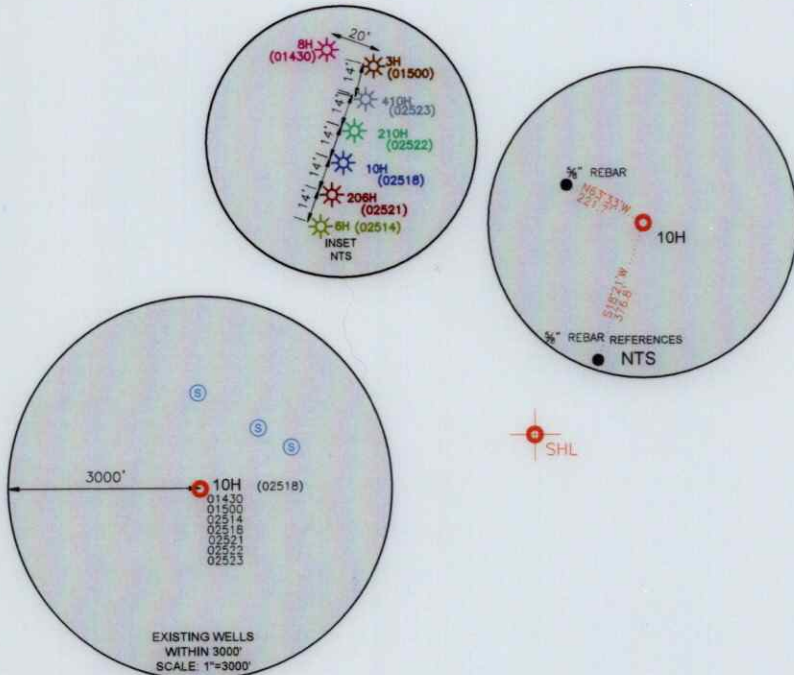
JACKSON SURVEYING INC. 2413 EAST PIKE ST. # 112 Clarksburg, WV 26302 304-623-5851

GRID NORTH US FT UTM, NAD83 DATUM, ZONE 17

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,239.758 EASTING: 532,872.896 LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,288.700 EASTING: 533,110.305 BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,425,216.396 EASTING: 534,877.929

Table with 5 columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT. Contains 3 lines of survey data.

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,239.825 EASTING: 532,872.708 LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,218.529 EASTING: 533,147.168 BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,425,218.999 EASTING: 534,882.666



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.

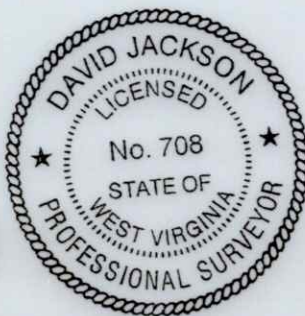
NOTES ON SURVEY

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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: expand

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

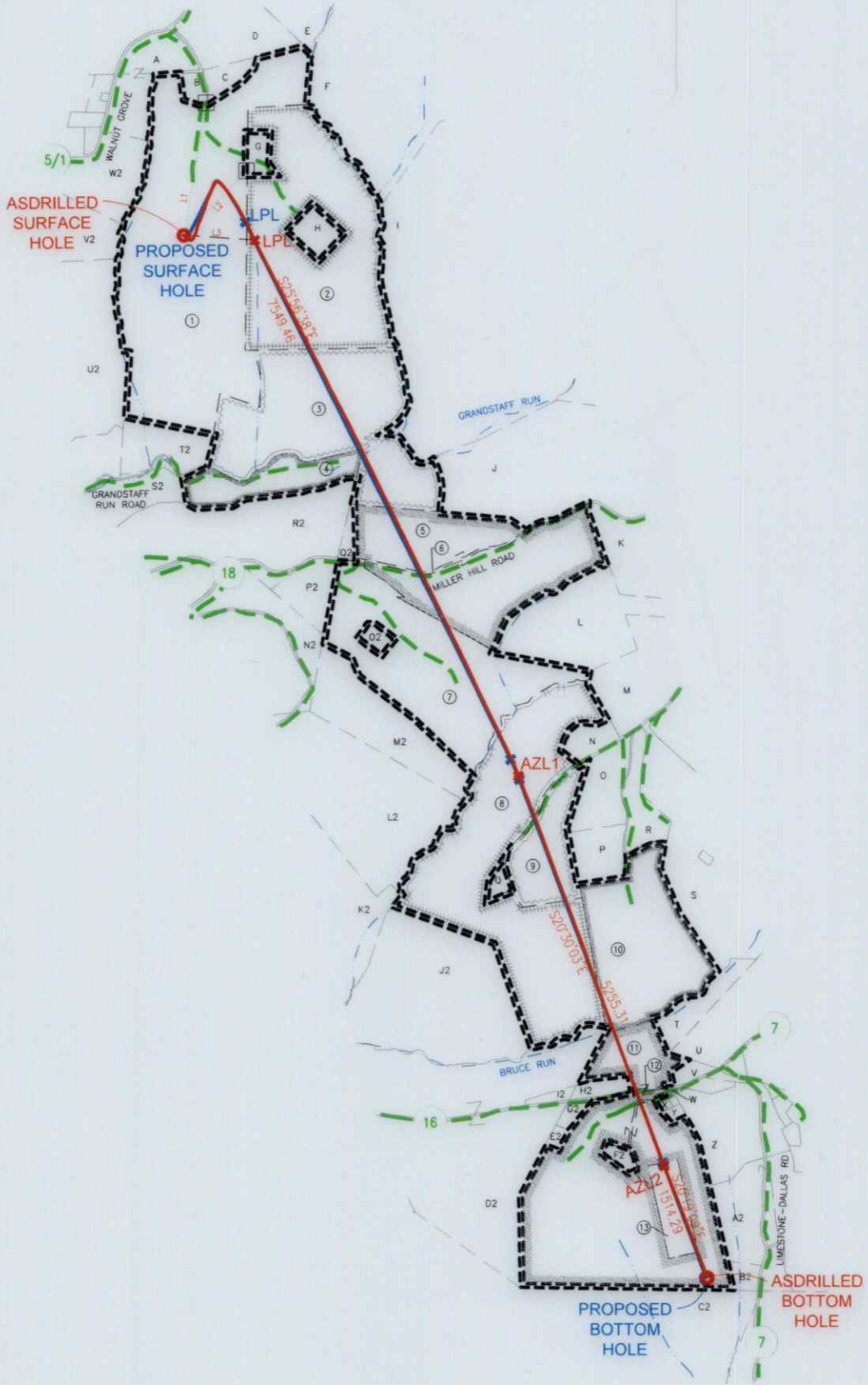
MICHAEL SOUTHWORTH MSH OPERATOR'S WELL #: 10H API WELL #: 47 051 02518 STATE COUNTY PERMIT

WELL TYPE: OIL [ ] WASTE DISPOSAL [ ] PRODUCTION [x] DEEP [ ] GAS [x] LIQUID INJECTION [ ] STORAGE [ ] SHALLOW [x] WATERSHED: GRANDSTAFF RUN OF WHEELING CREEK (HUC-10) ELEVATION: 1271.4' DISTRICT: SANDHILL COUNTY: MARSHALL QUADRANGLE: VALLEY GROVE, WV SURFACE OWNER: BARRY A. & KIMBERLY S. LITMAN ACREAGE: +/-159.776 OIL & GAS ROYALTY OWNER: BARRY A. & KIMBERLY S. LITMAN ACREAGE: +/-159.776 DRILL [ ] DRILL DEEPER [ ] REDRILL [ ] FRACTURE OR STIMULATE [ ] PLUG OFF OLD FORMATION [ ] PERFORATE NEW FORMATION [ ] CONVERT [ ] PLUG & ABANDON [ ] CLEAN OUT & REPLUG [ ] OTHER CHANGE [x] (SPECIFY) ASDRILLED 03/13/2026 TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,570 TVD 23,454 TMD

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

Table with 2 columns: LEGEND (Proposed Surface Hole, Existing Wellhead, LPL, Existing Water Well, Existing Spring, Surveyed Boundary, Drilling Unit, Lease Boundary, Asdrilled Path, Proposed Path) and REVISIONS/DATE.

JACKSON SURVEYING  
 INC.  
 2413 EAST PIKE ST. # 112  
 Clarksburg, WV 26302  
 304-623-5851



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P.S. 708 *David L Jackson*

03/13/2026


REVISIONS:		COMPANY:	
		<b>expand</b>	
OPERATOR'S MICHAEL SOUTHWORTH MSH		API #:	DATE: 11-20-2025
WELL #: 10H		47-051-02518	DRAWN BY: N. MANO
DISTRICT: SANDHILL	COUNTY: MARSHALL	STATE: WV	SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 2

JACKSON SURVEYING  
 INC.  
 2413 EAST PIKE ST. # 112  
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 304-623-5851

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	LITMAN JAMES M & LUCY A	12-2-16.1
B	RADCLIFFE JOHN D & ANNA M	12-2-10.1
C	LITMAN BARRY A	12-2-10.2
D	VELLENOWETH SCOTT U ET UX	12-2-1.1
E	BLATT THERESA L	12-2-23
F	BAIRD FAMILY TRUST	12-2-2
G	GREGORY JOHN W ET UX	12-2-9.1
H	REINEKE RICHARD S	12-2-9.2
I	TUBAUGH NORMA HUNTER ET AL	12-2-5
J	TOTH JOHN J SR & ALICE J REVOCABLE TRUST	12-8-1
K	GODDARD THERESA M	12-8-8
L	CORNELL SALLY SEIBERT & ROBERT	12-8-5
M	SCHULTZ CHARLES E & CLAUDIA M - TOD	12-8-6
N	TOLAND CARRIE M	12-8-33.1
O	JOHNSON LONI M & JAMES A	12-8-31.1
P	WINTERS BEVERLY DIANE	12-8-31.2
Q	TOLAND DAVID ET UX	12-8-33.2
R	ALAMINSKI LUCINDA RUTH	12-8-31.3
S	GRAY ZANDE C	12-8-30
T	STORCH JOSEPH WILLIAM ET UX	12-11-7
U	STORCH JOSEPH WILLIAM ET UX	12-11-12
V	GRAY WYATT MATTHEW	12-11-8.6
W	GRAY DONALD G ET UX - TOD	12-11-8.2
X	RUNKLE MICHELLE LEE	12-11-8.1
Y	RUNKLE MICHELLE LEE	12-11-8.7
Z	KLAGES MARY ANN	12-11-10
A2	HILLBERRY GARRY L	12-11-9
B2	HILLBERRY PAUL E JR	12-11-9.3
C2	THOMAS RICHARD LEE BARTON	12-11-16
D2	TEMPLE TERRY L & BEVERLY J - TOD	12-11-4
E2	TEMPLE TERRY L & BEVERLY J - TOD	12-11-8.4
F2	RAYMOND JOHN	12-11-8.9
G2	TEMPLE TERRY L & BEVERLY J - TOD	12-11-8.3
H2	GRAY WYATT MATTHEW	12-11-8.5
I2	TEMPLE DONALD LEE	12-11-4.1
J2	TOLAND SONDR A J & WILLIAM E	12-9-17
K2	MERINAR CALVIN C - LIFE	12-9-18
L2	MERINAR CALVIN C - LIFE	12-9-16
M2	MERINAR CALVIN C - LIFE	12-8-34
N2	RICHEY DUSTIN & FELICIA FRANCIS	12-8-35.1
O2	MERINAR JAMES MARTIN ET UX	12-9-15.1
P2	MERINAR CALVIN C - LIFE	12-9-15
Q2	TOTH JOHN J SR & ALICE - TRUST	12-8-4.1
R2	PORTER CARLA S	12-9-13
S2	GIBSON WILLIAM E	12-9-12
T2	G F P CORP	12-2-12
U2	WV BRIGHTMONT LLC	12-2-14
V2	EDGE WILLIAM F JR - TOD ET AL	12-2-15
W2	EDGE WILLIAM F JR - TOD ET AL	12-2-16

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	LITMAN BARRY A & KIMBERLY S (S/R)	12-2-10
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	REINEKE RICHARD S (S)	12-2-9
3	TDL&G LLC (S)	12-2-8
4	G F P CORP (S)	12-2-7
5	TOTH JOHN J SR & ALICE - TRUST (S)	12-8-4
6	W VA OF DEPT OF HIGHWAYS (S)	Miller Hill Rd
7	RICHEY RANDY ET UX (S)	12-8-35
8	TOLAND WILLIAM EUGENE ET AL (S)	12-8-33
9	TOLAND MARGARET (S)	12-8-32
10	WINTERS BEVERLY DIANE (S)	12-11-6
11	GRAY DONALD G - TOD & GRAY WYATT MATTHEW (S)	12-11-8
12	W VA OF DEPT OF HIGHWAYS (S)	Caldwell Hill Rd
13	OHIO COUNTY COAL RESOURCES INC (S)	12-11-8.8

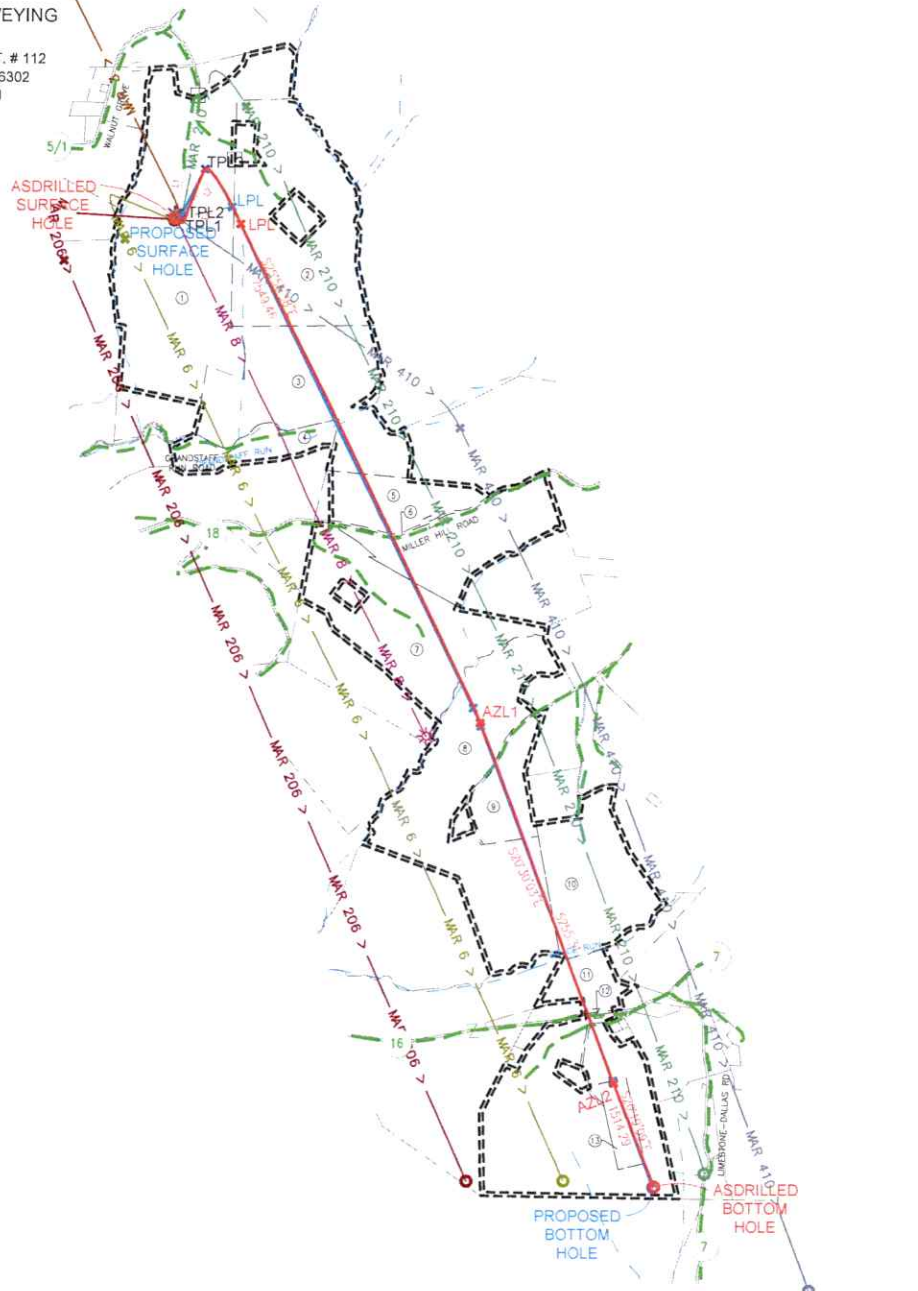
03/13/2026

REVISIONS:	COMPANY:		
			
	OPERATOR'S MICHAEL SOUTHWORTH MSH	API #:	DATE: 11-20-2025
	WELL #:	47-051-02518	DRAWN BY: N. MANO
	DISTRICT:	STATE:	SCALE: N/A
	SANDHILL	WV	DRAWING NO:
	COUNTY:		WELL LOCATION PLAT 3
	MARSHALL		



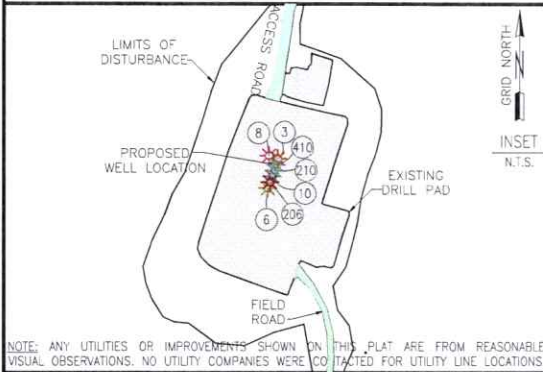
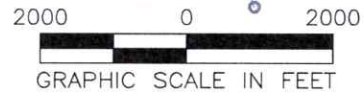
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GRID NORTH  
 UTM, NAD83 DATUM, ZONE 17, US FT



NOTES ON SURVEY

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3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.



NOTE: ANY UTILITIES OR IMPROVEMENTS SHOWN ON THIS PLAT ARE FROM REASONABLE VISUAL OBSERVATIONS. NO UTILITY COMPANIES WERE CONTACTED FOR UTILITY LINE LOCATIONS.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊗ EXISTING / PRODUCING WELLHEAD
- ⊗ ABANDONED WELL
- ⊗ PLUGGED & ABANDONED WELL
- LPL \* LANDING POINT LOCATION
- DRILLING LINT
- == LEASE BOUNDARY
- HARDLINE BOUNDARY
- UPP 2 > - UPPER POINT PLEASANT FAH
- MAR 2 > - MARGELLUS PATH

COMPANY:



OPERATOR'S

MICHAEL SOUTHWORTH MSH

WELL #:

10H

DISTRICT:

SANDHILL

COUNTY:

MARSHALL

STATE:

WV

SWN PRODUCTION COMPANY, LLC  
 SURFACE HOLES

- 3. "MICHAEL SOUTHWORTH MSH 3H"
- 6. "MICHAEL SOUTHWORTH MSH 6H"
- 8. "MICHAEL SOUTHWORTH MSH 8H"
- 10. "MICHAEL SOUTHWORTH MSH 10H"
- 206. "MICHAEL SOUTHWORTH MSH 206H"
- 210. "MICHAEL SOUTHWORTH MSH 210H"
- 410. "MICHAEL SOUTHWORTH MSH 410H"

REVISIONS:

DATE: 11-20-2025

DRAWN BY: N. MANO

SCALE: 1" = 2000'

DRAWING NO:

INTERNAL WELL PLAT

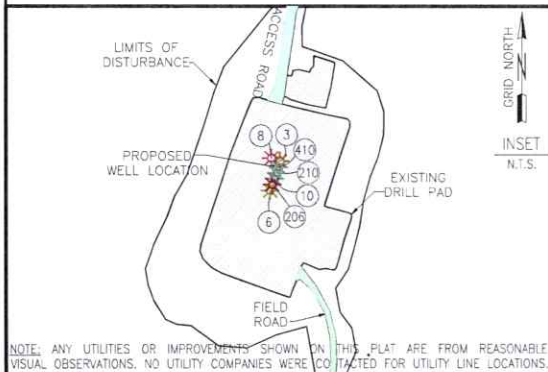
03/13/2026

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 2413 EAST PIKE ST. # 112  
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 304-623-5851

<b>SURFACE HOLE LOCATION (SHL):</b>
GEOGRAPHIC (NAD83): LATITUDE: 40.012717° LONGITUDE: -80.614819°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,531,597.440 EASTING: 1,748,267.160
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,239.758 EASTING: 532,872.896
<b>TURNING POINT LOCATION-1 (TPL1):</b>
GEOGRAPHIC (NAD83): LATITUDE: 40.012744° LONGITUDE: -80.614842°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,531,606.140 EASTING: 1,748,316.506
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,242.410 EASTING: 532,887.935
<b>TURNING POINT LOCATION-2 (TPL2):</b>
GEOGRAPHIC (NAD83): LATITUDE: 40.012848° LONGITUDE: -80.614509°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,531,645.360 EASTING: 1,748,353.650
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,254.364 EASTING: 532,899.258
<b>TURNING POINT LOCATION-3 (TPL3):</b>
GEOGRAPHIC (NAD83): LATITUDE: 40.014569° LONGITUDE: -80.613343°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,532,273.630 EASTING: 1,748,667.520
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,445.890 EASTING: 532,997.974
<b>LANDING POINT LOCATION (LPL):</b>
GEOGRAPHIC (NAD83): LATITUDE: 40.013149° LONGITUDE: -80.612035°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,531,758.010 EASTING: 1,749,046.060
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,288.700 EASTING: 533,110.305

<b>AZIMUTH POINT LOCATION-1 (AZL1):</b>
GEOGRAPHIC (NAD83): LATITUDE: 39.984397° LONGITUDE: -80.600269°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,524,844.200 EASTING: 1,752,371.000
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,427,211.847 EASTING: 534,123.749
<b>AZIMUTH POINT LOCATION-2 (AZL2):</b>
GEOGRAPHIC (NAD83): LATITUDE: 39.993711° LONGITUDE: -80.598890°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,524,685.000 EASTING: 1,752,478.300
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,427,135.890 EASTING: 534,156.454
<b>AZIMUTH POINT LOCATION-3 (AZL3):</b>
GEOGRAPHIC (NAD83): LATITUDE: 39.980406° LONGITUDE: -80.593484°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,519,856.140 EASTING: 1,754,294.530
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,425,661.612 EASTING: 534,710.042
<b>AZIMUTH POINT LOCATION-4 (AZL4):</b>
GEOGRAPHIC (NAD83): LATITUDE: 39.980351° LONGITUDE: -80.593458°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,519,838.220 EASTING: 1,754,302.020
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,425,655.541 EASTING: 534,712.325
<b>BOTTOM HOLE LOCATION (BHL):</b>
GEOGRAPHIC (NAD83): LATITUDE: 39.976368° LONGITUDE: -80.591542°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,518,397.460 EASTING: 1,754,845.340
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,425,216.396 EASTING: 534,877.929

<b>SURFACE HOLE LOCATION (SHL):</b>
GEOGRAPHIC (NAD27): LATITUDE: 40.012643° LONGITUDE: -80.615021°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 552,886.502 EASTING: 1,687,681.272
<b>TURNING POINT LOCATION-1 (AZL1):</b>
GEOGRAPHIC (NAD27): LATITUDE: 40.012667° LONGITUDE: -80.614844°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 552,894.377 EASTING: 1,687,730.766
<b>TURNING POINT LOCATION-2 (AZL2):</b>
GEOGRAPHIC (NAD27): LATITUDE: 40.012774° LONGITUDE: -80.614711°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 552,932.953 EASTING: 1,687,768.579
<b>TURNING POINT LOCATION-3 (AZL3):</b>
GEOGRAPHIC (NAD27): LATITUDE: 40.014495° LONGITUDE: -80.613545°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 553,556.020 EASTING: 1,688,103.023
<b>LANDING POINT LOCATION (LPL):</b>
GEOGRAPHIC (NAD27): LATITUDE: 40.013075° LONGITUDE: -80.612237°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 553,34.061 EASTING: 1,688,462.895
<b>AZIMUTH POINT LOCATION-1 (AZL1):</b>
GEOGRAPHIC (NAD27): LATITUDE: 39.994323° LONGITUDE: -80.600472°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 546,163.143 EASTING: 1,691,674.535
<b>AZIMUTH POINT LOCATION-2 (AZL2):</b>
GEOGRAPHIC (NAD27): LATITUDE: 39.993637° LONGITUDE: -80.600393°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 545,912.993 EASTING: 1,691,777.688
<b>AZIMUTH POINT LOCATION-3 (AZL3):</b>
GEOGRAPHIC (NAD27): LATITUDE: 39.993331° LONGITUDE: -80.593687°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 541,643.780 EASTING: 1,693,513.380
<b>AZIMUTH POINT LOCATION-4 (AZL4):</b>
GEOGRAPHIC (NAD27): LATITUDE: 39.980278° LONGITUDE: -80.593660°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 541,023.732 EASTING: 1,693,520.539
<b>BOTTOM HOLE LOCATION (BHL):</b>
GEOGRAPHIC (NAD27): LATITUDE: 39.976313° LONGITUDE: -80.591744°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 539,573.563 EASTING: 1,694,039.869



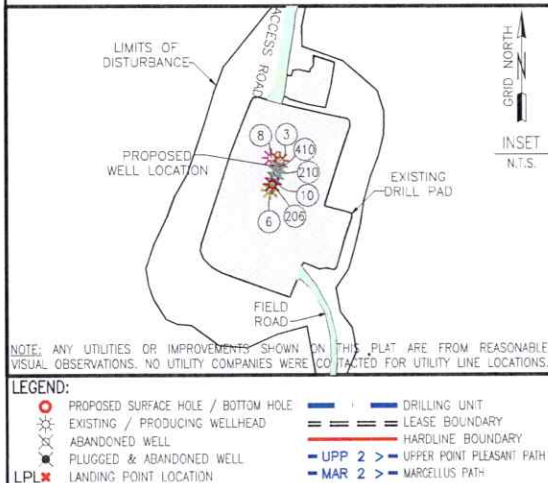
COMPANY:			
OPERATOR'S	MICHAEL SOUTHWORTH MSH		
WELL #:	10H		
DISTRICT:	COUNTY:	STATE:	
SANDHILL	MARSHALL	WV	
SWN PRODUCTION COMPANY, LLC SURFACE HOLES			
3. MICHAEL SOUTHWORTH MSH 3H*			
6. MICHAEL SOUTHWORTH MSH 6H*			
8. MICHAEL SOUTHWORTH MSH 8H*			
10. MICHAEL SOUTHWORTH MSH 10H*			
206. MICHAEL SOUTHWORTH MSH 206H*			
210. MICHAEL SOUTHWORTH MSH 210H*			
410. MICHAEL SOUTHWORTH MSH 410H*			

<b>LEGEND:</b>		DATE: 11-20-2025
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT	
⊗ EXISTING / PRODUCING WELLHEAD	== LEASE BOUNDARY	
⊗ ABANDONED WELL	== HARDLINE BOUNDARY	
⊗ PLUGGED & ABANDONED WELL	— UPP 2 > — UPPER POINT PLEASANT PATH	
LPL ⊗ LANDING POINT LOCATION	— MAR 2 > — MARCELLUS PATH	
REVISIONS:		DRAWN BY: N. MANO
		SCALE: 1" = 2000'
		DRAWING NO:
		INTERNAL WELL ID: 03/13/2026

JACKSON SURVEYING  
 INC.  
 2413 EAST PIKE ST. # 112  
 Clarksburg, WV 26302  
 304-623-5851

<b>SURFACE HOLE LOCATION (SHL):</b>
GEOGRAPHIC (NAD83): LATITUDE: 40.012713° LONGITUDE: -80.614921°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,531,597.659 EASTING: 1,748,266.542
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,219.825 EASTING: 532,872.726
<b>LANDING POINT LOCATION (LPL):</b>
GEOGRAPHIC (NAD83): LATITUDE: 40.012513° LONGITUDE: -80.611606°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,531,527.790 EASTING: 1,749,167.000
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,216.529 EASTING: 533,147.168
<b>AZIMUTH POINT LOCATION-1 (AZL1):</b>
GEOGRAPHIC (NAD83): LATITUDE: 39.993833° LONGITUDE: -80.599920°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,524,739.140 EASTING: 1,752,469.810
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,427,149.344 EASTING: 534,153.866
<b>AZIMUTH POINT LOCATION-2 (AZL2):</b>
GEOGRAPHIC (NAD83): LATITUDE: 39.990292° LONGITUDE: -80.593428°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,519,816.670 EASTING: 1,754,310.340
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,425,648.972 EASTING: 534,714.861
<b>BOTTOM HOLE LOCATION (BHL):</b>
GEOGRAPHIC (NAD83): LATITUDE: 39.976411° LONGITUDE: -80.591486°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,512,406.000 EASTING: 1,754,860.880
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,425,218.999 EASTING: 534,862.666

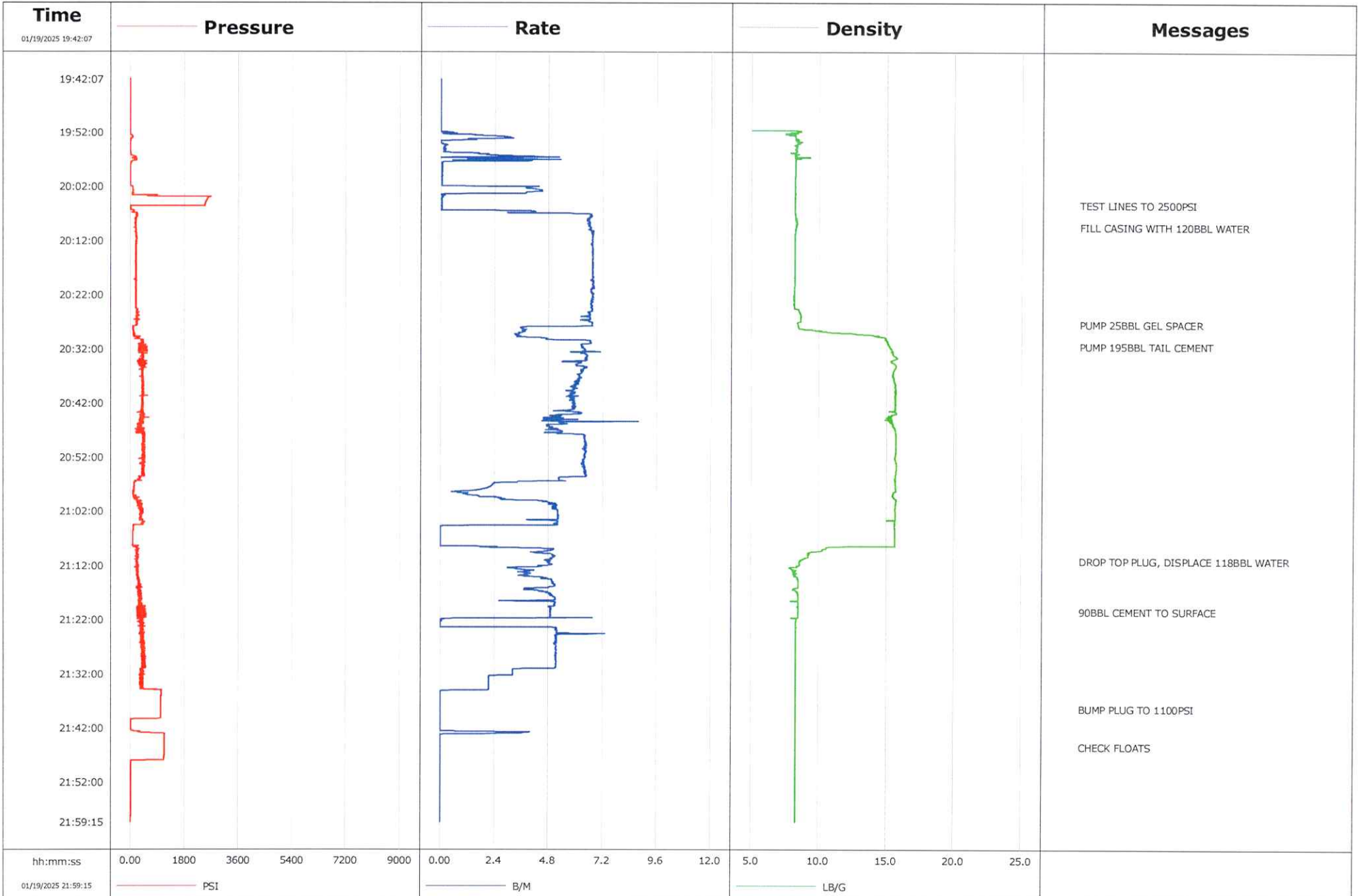
<b>SURFACE HOLE LOCATION (SHL):</b>
GEOGRAPHIC (NAD27): LATITUDE: 40.012644° LONGITUDE: -80.615023°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 562,886.739 EASTING: 1,697,650.657
<b>LANDING POINT LOCATION (LPL):</b>
GEOGRAPHIC (NAD27): LATITUDE: 40.012441° LONGITUDE: -80.611808°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 552,931.769 EASTING: 1,698,880.108
<b>AZIMUTH POINT LOCATION-1 (AZL1):</b>
GEOGRAPHIC (NAD27): LATITUDE: 39.993756° LONGITUDE: -80.630132°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 545,956.364 EASTING: 1,691,769.935
<b>AZIMUTH POINT LOCATION-2 (AZL2):</b>
GEOGRAPHIC (NAD27): LATITUDE: 39.990217° LONGITUDE: -80.593631°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 541,002.036 EASTING: 1,693,528.500
<b>BOTTOM HOLE LOCATION (BHL):</b>
GEOGRAPHIC (NAD27): LATITUDE: 39.976336° LONGITUDE: -80.591689°
STATE PLANE (NAD 27), WVN, FT.: NORTHING: 539,591.849 EASTING: 1,694,055.555



COMPANY:			
OPERATOR'S		MICHAEL SOUTHWORTH MSH	
WELL #:		10H	
DISTRICT:	COUNTY:	STATE:	
SANDHILL	MARSHALL	WV	
SWN PRODUCTION COMPANY, LLC SURFACE HOLES 3. "MICHAEL SOUTHWORTH MSH 3H" 6. "MICHAEL SOUTHWORTH MSH 6H" 8. "MICHAEL SOUTHWORTH MSH 8H" 10. "MICHAEL SOUTHWORTH MSH 10H" 206. "MICHAEL SOUTHWORTH MSH 206H" 210. "MICHAEL SOUTHWORTH MSH 210H" 410. "MICHAEL SOUTHWORTH MSH 410H"			
REVISIONS:		DATE: 11-20-2025	
		DRAWN BY: N. MANO	
		SCALE: 1" = 2000'	
		DRAWING NO:	
		INTERNAL WELL PLAT 2	

03/13/2026

<b>Well</b>	MICHAEL SOUTHWORTH MSH 10H	<b>Client</b>	SCHLUMBERGER
<b>Field</b>	MARSHALL COUNTY	<b>SIR No.</b>	1059713.12.19
<b>Engineer</b>	MATT MORRIS	<b>Job Type</b>	13.375 SURFACE
<b>Country</b>	United States	<b>Job Date</b>	01-19-2025





# Cementing Service Report

Customer SCHLUMBERGER				Job Number 1059713.12.19				
Well MICHAEL SOUTHWORTH MSH 10H			Location (Legal) WV			Schlumberger Location STRASBURG		Job Start Jan/19/2025
Field MARSHALL COUNTY		Formation Name/Type Clean-Sandstone		Deviation 1 deg	Bit Size 17.5 in	Well HD 823.0 ft	Well TVD 823.0 ft	
County MARSHALL COUNTY		State/Province WV		BHP 0 psi	BHST 69 degF	BHCT 80 degF	Pore Press. Gradient 0.00 lb/gal	
Well Master 0067400758		API/UWI 47-051-02518-00-00						
Rig Name EDC 41	Drilled For Gas	Service Via Land		Casing/Liner				
Offshore Zone	Well Class New	Well Type Development		Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Drilling Fluid Type NONE	Max. Density 8.33 lb/gal	Plastic Viscosity 0.000 cP		136.0	20.0	94.0	J55	BUTT
803.0	13.4	54.5	J55	BUTT	Tubing/Drill Pipe			
Service Line Cementing	Job Type 13.375 SURFACE		T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Max. Allowed Tub. Press 2730 psi	Max. Allowed Ann. Press 1130 psi	WH Connection Single Cement head		0.0	0.0	0.0	0	0
0.0	0.0	0.0	0	0	Perforations/Open Hole			
Service Instructions SAFETY MEETING, TEST LINES TO 1500PSI PUMP 25BBL GEL SPACER PUMP 195BBL TAIL @ 15.6PPG, Y-1.19, W-5.27, 921SKS DROP TOP PLUG, DISPLACE 118BL WATER BUMP PLUG, CHECK FLOATS WATER TEST, C-20, S-200, TEMP-60, PH-7	Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval			
	0.0 ft	0.0 ft	0.00	0	0.0 ft			
	0.0 ft	0.0 ft	0.00	0	Diameter			
	0.0 ft	0.0 ft	0.00	0	0.000 in			
	Treat Down CASING	Displacement 118.0 bbl	Packer Type NONE	Packer Depth 0.0 ft				
	Tubing Vol. 0.0 bbl	Casing Vol. 124.5 bbl	Annular Vol. 108.0 bbl	Openhole Vol. 83.0 bbl				
Casing/Tubing Secured <input checked="" type="checkbox"/>	1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>	Casing Tools		Squeeze Job				
Lift Pressure 1100 psi	Shoe Type GUIDE	Squeeze Type						
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Shoe Depth 803.0 ft	Tool Type					
No. Centralizers 0	Top Plugs 1	Bottom Plugs 0	Stage Tool Type NA	Tool Depth	ft			
Cement Head Type SINGLE	Stage Tool Depth 0.0 ft	Tail Pipe Size	in					
Job Scheduled For Jan/19/2025 11:00	Arrived on Location Jan/19/2025 11:00	Leave Location Jan/19/2025 23:00	Collar Type FLOAT	Tail Pipe Depth	ft			
			Collar Depth 764.0 ft	Sqz. Total Vol.	bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
01/19/2025	19:42:07	0	0.0	0.03	0.0			
01/19/2025	19:42:37	-0	0.0	0.03	0.0			
01/19/2025	19:43:07	-1	0.0	0.03	0.0			
01/19/2025	19:43:37	-1	0.0	0.03	0.0			
01/19/2025	19:44:07	-0	0.0	0.03	0.0			
01/19/2025	19:44:37	0	0.0	0.03	0.0			
01/19/2025	19:45:07	0	0.0	0.03	0.0			
01/19/2025	19:45:37	1	0.0	0.03	0.0			
01/19/2025	19:46:07	0	0.0	0.03	0.0			
01/19/2025	19:46:37	-1	0.0	0.03	0.0			
01/19/2025	19:47:07	0	0.0	0.03	0.0			
01/19/2025	19:47:37	0	0.0	0.03	0.0			
01/19/2025	19:48:07	0	0.0	0.03	0.0			
01/19/2025	19:48:37	0	0.0	0.03	0.0			
01/19/2025	19:49:07	-0	0.0	0.03	0.0			
01/19/2025	19:49:37	0	0.0	0.03	0.0			
01/19/2025	19:50:07	-1	0.0	0.03	0.0			
01/19/2025	19:50:37	1	0.0	0.03	0.0			
01/19/2025	19:51:07	1	0.0	0.03	0.0			
01/19/2025	19:51:37	-1	0.0	0.03	0.0			
01/19/2025	19:52:07	-0	0.1	0.03	0.1			

03/13/2026

Well		Field		Job Start		Customer		Job Number	
MICHAEL SOUTHWORTH MSH 10H		MARSHALL COUNTY		Jan/19/2025		SCHLUMBERGER		1059713.12.19	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/19/2025	19:53:07	68	3.2	0.03	2.0				
01/19/2025	19:53:37	17	0.0	0.03	2.6				
01/19/2025	19:54:07	7	0.1	0.03	2.6				
01/19/2025	19:54:37	3	0.2	0.03	2.7				
01/19/2025	19:55:07	3	0.2	0.03	2.8				
01/19/2025	19:55:37	3	0.1	0.03	2.9				
01/19/2025	19:56:07	29	2.0	0.03	3.5				
01/19/2025	19:56:37	168	0.6	0.03	5.1				
01/19/2025	19:57:07	203	1.9	0.03	6.4				
01/19/2025	19:57:37	37	0.1	6.93	7.0				
01/19/2025	19:58:07	14	0.1	8.38	7.0				
01/19/2025	19:58:37	9	0.1	8.37	7.0				
01/19/2025	19:59:07	8	0.1	8.37	7.1				
01/19/2025	19:59:37	8	0.1	8.37	7.1				
01/19/2025	20:00:07	3	0.1	8.37	7.1				
01/19/2025	20:00:37	15	0.1	8.53	7.2				
01/19/2025	20:01:07	5	0.1	8.52	7.2				
01/19/2025	20:01:37	2	0.1	8.34	7.2				
01/19/2025	20:02:07	95	3.8	8.39	7.9				
01/19/2025	20:02:37	97	4.4	8.36	9.9				
01/19/2025	20:03:07	84	3.8	8.36	12.1				
01/19/2025	20:03:37	83	0.1	8.36	12.8				
01/19/2025	20:04:07	2583	0.1	8.34	12.9				
01/19/2025	20:04:37	2538	0.0	8.38	12.9				
01/19/2025	20:05:07	2501	0.1	8.27	12.9				
01/19/2025	20:05:18	2489	0.1	8.35	12.9	TEST LINES TO 2500PSI			
01/19/2025	20:05:37	82	0.1	8.37	12.9				
01/19/2025	20:06:07	17	0.0	8.35	13.0				
01/19/2025	20:06:37	122	4.2	8.37	13.7				
01/19/2025	20:07:07	219	6.7	8.37	16.1				
01/19/2025	20:07:37	200	6.7	8.37	19.4				
01/19/2025	20:08:07	195	6.5	8.36	22.7				
01/19/2025	20:08:37	189	6.6	8.36	26.0				
01/19/2025	20:09:07	191	6.6	8.36	29.3				
01/19/2025	20:09:18	193	6.6	8.36	30.5	FILL CASING WITH 120BBL WATER			
01/19/2025	20:09:37	176	6.7	8.36	32.6				
01/19/2025	20:10:07	194	6.7	8.36	35.9				
01/19/2025	20:10:37	195	6.7	8.35	39.2				
01/19/2025	20:11:07	204	6.7	8.35	42.6				
01/19/2025	20:11:37	200	6.7	8.35	46.0				
01/19/2025	20:12:07	205	6.7	8.34	49.4				
01/19/2025	20:12:37	197	6.7	8.35	52.7				
01/19/2025	20:13:07	203	6.7	8.34	56.1				
01/19/2025	20:13:37	203	6.7	8.34	59.4				
01/19/2025	20:14:07	202	6.7	8.34	62.8				
01/19/2025	20:14:37	203	6.7	8.34	66.2				
01/19/2025	20:15:07	199	6.8	8.34	69.6				
01/19/2025	20:15:37	205	6.7	8.34	72.9				
01/19/2025	20:16:07	196	6.7	8.34	76.3				
01/19/2025	20:16:37	213	6.7	8.34	79.7				
01/19/2025	20:17:07	203	6.7	8.33	83.0				
01/19/2025	20:17:37	210	6.7	8.34	86.4				
01/19/2025	20:18:07	214	6.7	8.33	89.8				
01/19/2025	20:18:37	198	6.7	8.34	93.1				

03/13/2026

Well		Field		Job Start		Customer		Job Number	
MICHAEL SOUTHWORTH MSH 10H		MARSHALL COUNTY		Jan/19/2025		SCHLUMBERGER		1059713.12.19	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/19/2025	20:19:37	194	6.8	8.34	99.9				
01/19/2025	20:20:07	206	6.7	8.34	103.3				
01/19/2025	20:20:37	197	6.8	8.29	106.6				
01/19/2025	20:21:07	207	6.7	8.29	110.0				
01/19/2025	20:21:37	204	6.7	8.29	113.4				
01/19/2025	20:22:07	203	6.7	8.30	116.7				
01/19/2025	20:22:37	204	6.7	8.30	120.1				
01/19/2025	20:23:07	200	6.7	8.28	123.4				
01/19/2025	20:23:37	201	6.7	8.25	126.8				
01/19/2025	20:24:07	202	6.7	8.29	130.1				
01/19/2025	20:24:37	201	6.7	8.30	133.5				
01/19/2025	20:25:07	244	6.7	8.35	136.8				
01/19/2025	20:25:37	241	6.6	8.35	140.1				
01/19/2025	20:26:07	232	6.6	8.35	143.4				
01/19/2025	20:26:37	145	6.3	8.35	146.7				
01/19/2025	20:27:07	215	6.7	8.35	149.9				
01/19/2025	20:27:18	231	6.7	8.35	151.2	PUMP 258BL GEL SPACER			
01/19/2025	20:27:37	216	6.7	10.30	153.3				
01/19/2025	20:28:07	102	3.5	13.48	155.8				
01/19/2025	20:28:37	98	3.7	15.09	157.6				
01/19/2025	20:29:07	107	3.5	15.86	159.5				
01/19/2025	20:29:37	146	3.5	16.30	161.2				
01/19/2025	20:30:07	257	4.7	15.33	163.2				
01/19/2025	20:30:37	401	6.6	15.42	166.1				
01/19/2025	20:31:07	277	6.3	15.47	169.4				
01/19/2025	20:31:18	300	6.2	15.56	170.6	PUMP 1958BL TAIL CEMENT			
01/19/2025	20:31:37	428	6.3	15.67	172.6				
01/19/2025	20:32:37	430	6.0	16.16	178.9				
01/19/2025	20:33:07	392	6.5	15.94	182.1				
01/19/2025	20:33:37	424	6.5	16.01	185.4				
01/19/2025	20:34:07	376	6.5	14.45	188.6				
01/19/2025	20:34:37	352	6.2	15.80	191.6				
01/19/2025	20:35:07	404	6.2	15.78	194.6				
01/19/2025	20:35:37	389	6.4	15.59	197.8				
01/19/2025	20:36:07	405	6.3	15.48	201.0				
01/19/2025	20:36:37	428	6.2	15.51	204.1				
01/19/2025	20:37:07	404	6.2	15.60	207.2				
01/19/2025	20:37:37	422	6.1	15.70	210.2				
01/19/2025	20:38:07	435	6.1	15.77	213.3				
01/19/2025	20:38:37	428	6.0	15.81	216.3				
01/19/2025	20:39:07	400	5.9	15.85	219.2				
01/19/2025	20:39:37	450	5.8	15.85	222.2				
01/19/2025	20:40:07	441	5.8	15.84	225.1				
01/19/2025	20:40:37	405	5.7	15.84	228.0				
01/19/2025	20:41:07	427	5.8	15.83	230.9				
01/19/2025	20:41:37	410	6.0	15.82	233.8				
01/19/2025	20:42:07	397	5.9	15.82	236.8				
01/19/2025	20:42:37	394	5.8	15.80	239.7				
01/19/2025	20:43:07	393	5.9	15.78	242.7				
01/19/2025	20:43:37	432	6.0	15.75	245.5				
01/19/2025	20:44:07	352	5.4	15.73	248.6				
01/19/2025	20:44:37	336	5.0	15.71	251.2				
01/19/2025	20:45:07	360	5.0	15.68	253.7				
01/19/2025	20:45:37	408	5.4	15.67	256.5				

03/13/2026

Well		Field		Job Start		Customer		Job Number		
MICHAEL SOUTHWORTH MSH 10H		MARSHALL COUNTY		Jan/19/2025		SCHLUMBERGER		1059713.12.19		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
01/19/2025	20:46:37		259	4.9	15.68	261.5				
01/19/2025	20:47:07		308	5.4	15.71	264.1				
01/19/2025	20:47:37		207	5.3	15.72	266.7				
01/19/2025	20:48:07		459	6.4	15.72	269.7				
01/19/2025	20:48:37		465	6.4	15.71	272.9				
01/19/2025	20:49:07		470	6.4	15.71	276.1				
01/19/2025	20:49:37		450	6.5	15.70	279.3				
01/19/2025	20:50:07		427	6.4	15.68	282.6				
01/19/2025	20:50:37		486	6.4	15.67	285.7				
01/19/2025	20:51:07		479	6.4	15.67	289.0				
01/19/2025	20:51:37		463	6.4	15.64	292.2				
01/19/2025	20:52:07		481	6.4	15.55	295.4				
01/19/2025	20:52:37		489	6.3	15.78	298.5				
01/19/2025	20:53:07		455	6.3	15.82	301.7				
01/19/2025	20:53:37		442	6.4	15.75	304.9				
01/19/2025	20:54:07		459	6.4	15.70	308.0				
01/19/2025	20:54:37		411	6.4	15.64	311.2				
01/19/2025	20:55:07		446	6.5	15.62	314.4				
01/19/2025	20:55:37		318	5.6	15.61	317.6				
01/19/2025	20:56:07		297	5.3	16.04	320.3				
01/19/2025	20:56:37		165	3.4	15.35	322.6				
01/19/2025	20:57:07		133	2.3	15.36	323.8				
01/19/2025	20:57:37		132	2.1	15.34	324.9				
01/19/2025	20:58:07		134	1.6	16.05	325.9				
01/19/2025	20:58:37		105	1.1	15.40	326.4				
01/19/2025	20:59:07		111	1.7	15.59	327.0				
01/19/2025	20:59:37		223	2.6	16.14	328.1				
01/19/2025	21:00:07		397	4.6	15.66	329.8				
01/19/2025	21:00:37		387	4.9	15.62	332.2				
01/19/2025	21:01:07		275	5.1	15.60	334.7				
01/19/2025	21:01:37		374	5.1	15.58	337.2				
01/19/2025	21:02:07		430	5.2	15.62	339.8				
01/19/2025	21:02:37		414	5.2	15.62	342.4				
01/19/2025	21:03:07		362	5.2	15.63	345.1				
01/19/2025	21:03:37		345	4.2	15.63	347.6				
01/19/2025	21:04:07		461	5.1	15.58	350.1				
01/19/2025	21:04:37		117	0.6	15.54	352.4				
01/19/2025	21:05:07		106	0.0	15.58	352.4				
01/19/2025	21:05:37		99	0.0	15.60	352.4				
01/19/2025	21:06:07		95	0.0	15.41	352.4				
01/19/2025	21:06:37		90	0.0	15.42	352.4				
01/19/2025	21:07:07		86	0.0	9.78	352.4				
01/19/2025	21:07:37		85	0.0	9.06	352.4				
01/19/2025	21:08:07		88	0.0	8.86	352.4				
01/19/2025	21:08:37		172	2.2	8.88	352.9				
01/19/2025	21:09:07		240	4.9	8.85	355.0				
01/19/2025	21:09:37		207	4.2	8.62	357.3				
01/19/2025	21:10:07		207	5.0	8.55	359.7				
01/19/2025	21:10:37		202	4.9	8.49	362.2				
01/19/2025	21:11:00		230	4.7	8.45	364.1	DROP TOP PLUG, DISPLACE 118BBL WATER			
01/19/2025	21:11:07		226	4.8	8.44	364.6				
01/19/2025	21:11:37		224	4.9	8.40	367.0				
01/19/2025	21:12:07		234	4.5	8.39	369.4				
01/19/2025	21:12:37		220	3.4	8.38	371.2				

03/13/2026



Well		Field		Job Start		Customer		Job Number	
MICHAEL SOUTHWORTH MSH 10H		MARSHALL COUNTY		Jan/19/2025		SCHLUMBERGER		1059713.12.19	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/19/2025	21:13:37	240	3.8	8.36	375.0				
01/19/2025	21:14:07	246	4.3	8.35	376.9				
01/19/2025	21:14:37	252	4.9	8.35	379.2				
01/19/2025	21:15:07	275	5.0	8.34	381.7				
01/19/2025	21:15:37	302	5.1	8.36	384.2				
01/19/2025	21:16:07	377	4.5	8.35	386.7				
01/19/2025	21:16:37	276	4.3	8.35	388.7				
01/19/2025	21:17:07	280	4.9	8.35	391.0				
01/19/2025	21:17:37	360	5.0	8.35	393.5				
01/19/2025	21:18:07	297	5.1	8.36	396.0				
01/19/2025	21:18:37	301	4.9	8.36	398.3				
01/19/2025	21:19:07	359	5.1	8.35	400.8				
01/19/2025	21:19:37	317	4.8	8.36	403.3				
01/19/2025	21:20:07	350	4.9	9.06	405.8				
01/19/2025	21:20:18	322	4.9	9.94	406.7	90BBL CEMENT TO SURFACE			
01/19/2025	21:20:37	447	4.9	9.91	408.2				
01/19/2025	21:21:07	292	4.9	6.68	410.7				
01/19/2025	21:21:37	264	5.3	0.03	413.3				
01/19/2025	21:22:07	384	5.3	0.02	415.9				
01/19/2025	21:22:37	342	5.3	0.02	418.6				
01/19/2025	21:23:37	396	5.4	8.33	423.9				
01/19/2025	21:24:07	385	5.3	8.33	426.6				
01/19/2025	21:24:37	394	5.3	8.33	429.3				
01/19/2025	21:25:07	450	5.1	8.33	431.9				
01/19/2025	21:25:37	386	5.2	8.33	434.4				
01/19/2025	21:26:07	427	5.1	8.33	437.0				
01/19/2025	21:26:37	469	5.1	8.33	439.5				
01/19/2025	21:27:07	426	5.1	8.33	442.1				
01/19/2025	21:27:37	442	5.1	8.33	444.7				
01/19/2025	21:28:07	493	5.1	8.33	447.3				
01/19/2025	21:28:37	434	5.1	8.33	449.8				
01/19/2025	21:29:07	432	5.1	8.34	452.4				
01/19/2025	21:30:07	435	5.1	8.33	457.5				
01/19/2025	21:30:37	420	5.1	8.34	460.1				
01/19/2025	21:31:07	422	3.2	8.33	462.4				
01/19/2025	21:31:37	358	3.2	8.33	464.0				
01/19/2025	21:32:07	346	3.2	8.33	465.6				
01/19/2025	21:32:37	376	2.2	8.34	466.8				
01/19/2025	21:33:07	343	2.2	8.34	467.9				
01/19/2025	21:33:37	441	2.2	8.33	469.0				
01/19/2025	21:34:07	396	2.2	8.33	470.0				
01/19/2025	21:34:37	380	2.2	8.33	471.1				
01/19/2025	21:35:07	1036	0.1	8.34	472.0				
01/19/2025	21:35:37	1029	0.0	8.34	472.0				
01/19/2025	21:36:07	1027	0.0	8.34	472.0				
01/19/2025	21:36:37	1026	0.0	8.34	472.0				
01/19/2025	21:37:07	1023	0.0	8.34	472.0				
01/19/2025	21:37:37	1023	0.0	8.34	472.0				
01/19/2025	21:38:07	1024	0.0	8.34	472.0				
01/19/2025	21:38:37	1023	0.0	8.34	472.0				
01/19/2025	21:39:07	1023	0.0	8.34	472.0				
01/19/2025	21:39:37	1022	0.0	8.34	472.0				
01/19/2025	21:40:07	1021	0.0	8.34	472.0				
01/19/2025	21:40:37	30	0.0	8.34	472.0				

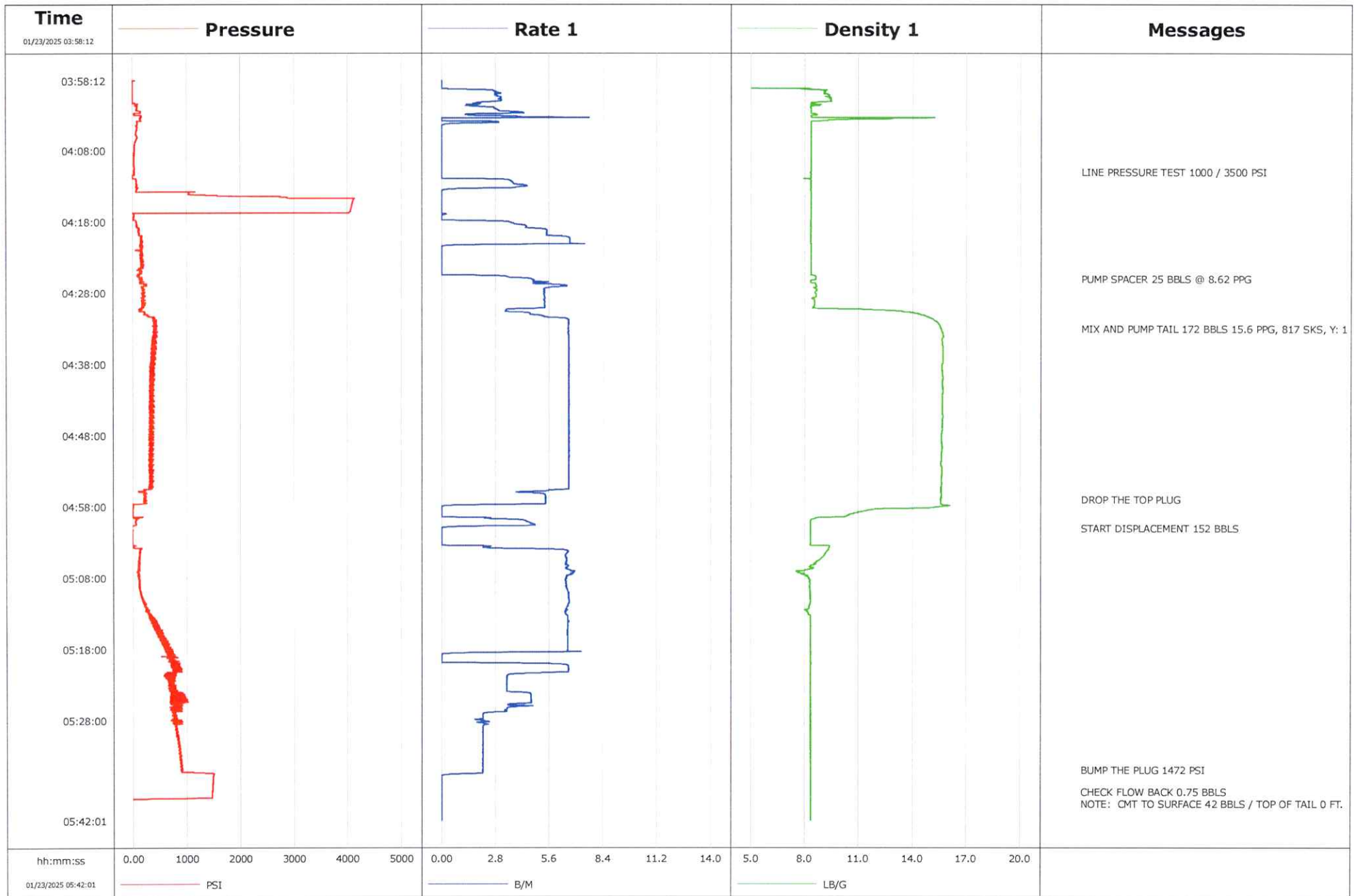
Well		Field		Job Start		Customer		Job Number	
MICHAEL SOUTHWORTH MSH 10H		MARSHALL COUNTY		Jan/19/2025		SCHLUMBERGER		1059713.12.19	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/19/2025	21:41:37	25	0.0	8.34	472.0				
01/19/2025	21:42:07	25	0.0	8.34	472.0				
01/19/2025	21:42:37	325	2.4	8.33	472.1				
01/19/2025	21:43:07	1134	0.1	8.33	473.5				
01/19/2025	21:43:37	1130	0.0	8.34	473.5				
01/19/2025	21:44:07	1131	0.0	8.34	473.5				
01/19/2025	21:44:37	1132	0.0	8.34	473.5				
01/19/2025	21:45:07	1132	0.0	8.34	473.5				
01/19/2025	21:45:18	1133	0.0	8.34	473.5	CHECK FLOATS			
01/19/2025	21:45:37	1130	0.0	8.34	473.5				
01/19/2025	21:46:07	1129	0.0	8.34	473.5				
01/19/2025	21:46:37	1131	0.0	8.34	473.5				
01/19/2025	21:47:07	1128	0.0	8.34	473.5				
01/19/2025	21:47:37	1126	0.0	8.34	473.5				
01/19/2025	21:48:07	29	0.0	8.34	473.5				
01/19/2025	21:48:37	24	0.0	8.34	473.5				
01/19/2025	21:49:07	23	0.0	8.34	473.5				
01/19/2025	21:49:37	22	0.0	8.34	473.5				
01/19/2025	21:50:07	22	0.0	8.34	473.5				
01/19/2025	21:50:37	22	0.0	8.34	473.5				
01/19/2025	21:51:07	21	0.0	8.34	473.5				
01/19/2025	21:51:37	21	0.0	8.34	473.5				
01/19/2025	21:52:07	21	0.0	8.34	473.5				
01/19/2025	21:52:37	21	0.0	8.34	473.5				
01/19/2025	21:53:07	21	0.0	8.34	473.5				
01/19/2025	21:53:37	21	0.0	8.34	473.5				
01/19/2025	21:54:07	20	0.0	8.34	473.5				
01/19/2025	21:54:37	21	0.0	8.34	473.5				
01/19/2025	21:55:07	21	0.0	8.34	473.5				
01/19/2025	21:55:37	20	0.0	8.34	473.5				
01/19/2025	21:56:07	20	0.0	8.34	473.5				
01/19/2025	21:56:37	20	0.0	8.34	473.5				
01/19/2025	21:57:07	19	0.0	8.34	473.5				
01/19/2025	21:57:37	18	0.0	8.34	473.5				
01/19/2025	21:58:07	17	0.0	8.34	473.5				
01/19/2025	21:58:37	15	0.0	8.34	473.5				

### Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
4.7	0	0.0	8.8	196.0	0.0	25.0	0
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
2683	15	336	400		0	0.0 bbl	0.00 lb/gal
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume	90.0 bbl
0.0 %	195.0 bbl	118.0 bbl	60 degF	Washed Thru Perfs	<input type="checkbox"/>	To	ft
Customer or Authorized Representative		Schlumberger Supervisor		Circulation Lost	<input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
		MATT MORRIS					

03/13/2026

<b>Well</b>	MICHAEL SOUTHWORTH 10H	<b>Client</b>	SWN
<b>Field</b>	SOUTHWORTH	<b>SIR No.</b>	A.1059713.12.24
<b>Engineer</b>	RAUL SEGOVIA	<b>Job Type</b>	9 5/8 IN CASING
<b>Country</b>	United States	<b>Job Date</b>	01-22-2025





# Cementing Service Report

Customer	SWN	Job Number	A.1059713.12.24
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Well	MICHAEL SOUTHWORTH 10H 10H	Location (legal)	Marshall	Schlumberger Location	Job Start	Jan/22/2025
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Field	SOUTHWORTH	Formation Name/Type	Limestone	Deviation	0 deg	Bit Size	12.3 in	Well MD	2032.0 ft	Well TVD	2032.0 ft
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County	Marshall	State/Province	West Virginia	BHP	744 psi	BHST	82 degF	BHCT	80 degF	Pore Press. Gradient	0.00 lb/gal
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Well Master	0067400758	API/UWI	47-051-02518-00-00	Casing/Liner							
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Rig Name	SDC-41	Drilled For	Gas	Service Via	Land	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
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Offshore Zone	N/A	Well Class	New	Well Type	Development	803.0	13.4	54.5	J55	BUTT
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Drilling Fluid Type	KCL Polymer	Max. Density	8.70 lb/gal	Plastic Viscosity	0.000 cP	T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
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Service Line	Cementing	Job Type	9 5/8 IN CASING	Perforations/Open Hole							
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Max. Allowed Tub. Press	3520 psi	Max. Allowed Ann. Press	2020 psi	WH Connection	Single Cement head	Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
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Service Instructions						0.0 ft	0.0 ft	0.00	0	0.0 ft
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SAFETY MEETING LINE PRESSURE TEST 1000 / 3500 PSI PUMP SPACER 25 BBLs @ 8.62 PPG MIX AND PUMP TAIL 172 BBLs 15.6 PPG, 817 SKS, Y: 1.18 / W: 5.28 / 103 BBLs DROP THE TOP PLUG START DISPLACEMENT 152 BBLs BUMP THE PLUG 1472 PSI CHECK FLOW BACK 0.75 BBLs NOTE: CMT TO SURFACE 42 BBLs / TOP OF TAIL 0 FT.						0.0 ft	0.0 ft	0.00	0	Diameter
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						0.0 ft	0.0 ft	0.00	0	0.000 in
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Casing/Tubing Secured <input checked="" type="checkbox"/> 1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>						Treat Down	Displacement	Packer Type	Packer Depth	
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						Casing	152.3 bbl	None	0.0 ft	
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						Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.	
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						0.0 bbl	155.8 bbl	119.3 bbl	67.4 bbl	
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Lift Pressure						678 psi	Shoe Type	Float	Squeeze Type	
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Pipe Rotated						<input type="checkbox"/>	Pipe Reciprocated	<input type="checkbox"/>	Shoe Depth	2012.0 ft
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No. Centralizers						0	Top Plugs	1	Bottom Plugs	0
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Cement Head Type						Single	Stage Tool Type	0	Tool Depth	ft
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Job Scheduled For						Jan/22/2025 20:00	Arrived on Location	Jan/22/2025 20:00	Leave Location	Jan/23/2025 07:00
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						0.0 ft	Stage Tool Depth	0.0 ft	Tail Pipe Size	in
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						Collar Type	Float	Tail Pipe Depth	ft	
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						Collar Depth	1973.6 ft	Sqz. Total Vol.	bbl	
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Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_MIX_DENSITY LB/G	Message
01/23/2025	04:11:00	37	0.0	8.32	12.3	8.56	SAFETY MEETING
01/23/2025	04:11:10	37	0.0	8.31	12.3	8.08	
01/23/2025	04:11:20	37	0.0	8.34	12.3	8.50	
01/23/2025	04:11:30	38	0.0	8.34	12.3	8.51	
01/23/2025	04:11:40	0	0.0	8.34	12.3	8.51	
01/23/2025	04:11:50	0	0.0	8.34	12.3	8.51	
01/23/2025	04:12:00	62	1.8	8.10	12.4	8.50	
01/23/2025	04:12:10	73	3.5	8.34	12.9	8.51	
01/23/2025	04:12:20	76	3.6	8.34	13.5	8.25	
01/23/2025	04:12:30	76	3.7	8.34	14.1	8.49	
01/23/2025	04:12:40	74	3.7	8.34	14.7	8.47	
01/23/2025	04:12:50	87	4.2	8.34	15.4	8.32	
01/23/2025	04:13:00	83	4.5	8.34	16.1	8.32	
01/23/2025	04:13:10	73	3.9	8.34	16.8	8.32	
01/23/2025	04:13:20	94	2.3	8.34	17.4	8.32	
01/23/2025	04:13:30	84	0.2	8.34	17.6	8.32	
01/23/2025	04:13:40	74	0.0	8.34	17.6	8.34	
01/23/2025	04:13:50	72	0.0	8.34	17.6	8.42	
01/23/2025	04:14:00	1043	0.0	8.34	17.6	8.42	
01/23/2025	04:14:10	1034	0.0	8.34	17.6	8.42	
01/23/2025	04:14:20	1424	0.0	8.34	17.6	8.36	

Well			Field		Job Start	Customer		Job Number
MICHAEL SOUTHWORTH 10H 10H			SOUTHWORTH		Jan/22/2025	SWN		A.1059713.12.24
Date	Time 24-hr clock	Treating Pressure PST	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_MIX_DENSITY LB/G	Message	
01/23/2025	04:14:40	2868	0.0	8.34	17.6	8.41		
01/23/2025	04:14:50	4115	0.0	8.34	17.6	8.41		
01/23/2025	04:15:00	4106	0.0	8.34	17.6	8.42		
01/23/2025	04:15:10	4098	0.0	8.34	17.6	8.42		
01/23/2025	04:15:20	4092	0.0	8.34	17.6	8.42		
01/23/2025	04:15:30	4086	0.0	8.35	17.6	8.42		
01/23/2025	04:15:40	4080	0.0	8.35	17.6	8.43		
01/23/2025	04:15:50	4074	0.0	8.35	17.6	8.43		
01/23/2025	04:16:00	4070	0.0	8.35	17.6	8.43		
01/23/2025	04:16:10	4065	0.0	8.35	17.6	8.43		
01/23/2025	04:16:20	4060	0.0	8.35	17.6	8.43		
01/23/2025	04:16:30	4056	0.0	8.35	17.6	8.43		
01/23/2025	04:16:40	4039	0.0	8.35	17.6	8.43		
01/23/2025	04:16:50	4030	0.0	8.35	17.6	8.43		
01/23/2025	04:17:00	31	0.2	8.35	17.6	8.42		
01/23/2025	04:17:10	30	0.0	8.36	17.6	8.43		
01/23/2025	04:17:20	27	0.0	8.35	17.6	8.43		
01/23/2025	04:17:30	25	0.0	8.35	17.6	8.39		
01/23/2025	04:17:40	20	0.0	8.35	17.6	8.42		
01/23/2025	04:17:50	62	0.3	8.35	17.6	8.43		
01/23/2025	04:18:00	73	3.3	8.34	18.0	8.61		
01/23/2025	04:18:10	75	3.6	8.34	18.5	8.62		
01/23/2025	04:18:20	75	3.8	8.34	19.2	8.64		
01/23/2025	04:18:30	86	4.3	8.34	19.8	8.64		
01/23/2025	04:18:40	82	4.4	8.34	20.6	8.60		
01/23/2025	04:18:50	84	4.4	8.34	21.3	8.64		
01/23/2025	04:19:00	126	5.1	8.34	22.1	8.66		
01/23/2025	04:19:10	127	5.5	8.34	23.0	8.67		
01/23/2025	04:19:20	118	5.5	8.34	23.9	8.67		
01/23/2025	04:19:30	126	5.5	8.34	24.8	8.68		
01/23/2025	04:19:40	128	5.5	8.34	25.7	8.67		
01/23/2025	04:19:50	122	5.5	8.34	26.6	8.52		
01/23/2025	04:20:00	162	5.7	8.34	27.5	8.67		
01/23/2025	04:20:10	151	6.6	8.34	28.6	8.66		
01/23/2025	04:20:20	174	6.6	8.34	29.7	8.67		
01/23/2025	04:20:30	173	6.7	8.34	30.8	8.68		
01/23/2025	04:20:40	148	6.7	8.34	31.9	8.64		
01/23/2025	04:20:50	160	6.7	8.34	33.0	8.67		
01/23/2025	04:21:00	157	6.7	8.34	34.1	8.67		
01/23/2025	04:21:10	163	5.8	8.38	35.2	8.58		
01/23/2025	04:21:20	166	0.5	8.35	35.7	8.65		
01/23/2025	04:21:30	147	0.0	8.35	35.7	8.65		
01/23/2025	04:21:40	148	0.0	8.35	35.7	8.65		
01/23/2025	04:21:50	154	0.0	8.35	35.7	8.64		
01/23/2025	04:22:00	101	0.0	8.35	35.7	8.63		
01/23/2025	04:22:10	175	0.0	8.35	35.7	8.31		
01/23/2025	04:22:20	173	0.0	8.35	35.7	8.31		
01/23/2025	04:22:30	163	0.0	8.35	35.7	8.31		
01/23/2025	04:22:40	152	0.0	8.35	35.7	8.32		
01/23/2025	04:22:50	193	0.0	8.34	35.7	8.32		
01/23/2025	04:23:00	175	0.0	8.35	35.7	8.32		
01/23/2025	04:23:10	176	0.0	8.35	35.7	8.32		
01/23/2025	04:23:20	154	0.0	8.35	35.7	8.32		
01/23/2025	04:23:30	148	0.0	8.34	35.7	8.32		

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Well MICHAEL SOUTHWORTH 10H 10H			Field SOUTHWORTH		Job Start Jan/22/2025		Customer SWN		Job Number A.1059713.12.24
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_MIX_DENSITY LB/G	Message		
01/23/2025	04:23:50	173	0.0	8.35	35.7	8.31			
01/23/2025	04:24:00	158	0.0	8.34	35.7	8.31			
01/23/2025	04:24:10	185	0.0	8.35	35.7	8.32			
01/23/2025	04:24:20	167	0.0	8.34	35.7	8.32			
01/23/2025	04:24:30	179	0.0	8.35	35.7	8.32			
01/23/2025	04:24:40	161	0.0	8.35	35.7	8.32			
01/23/2025	04:24:50	130	0.0	8.35	35.7	8.32			
01/23/2025	04:25:00	163	0.0	8.35	35.7	8.32			
01/23/2025	04:25:10	169	0.0	8.34	35.7	8.32			
01/23/2025	04:25:20	134	0.0	8.34	35.7	8.31			
01/23/2025	04:25:30	118	0.0	8.34	35.7	8.31			
01/23/2025	04:25:40	95	3.3	8.60	36.1	8.31			
01/23/2025	04:25:50	180	3.5	8.60	36.6	8.31			
01/23/2025	04:26:00	177	4.6	8.60	37.3	8.31	PUMP SPACER 25 BBLs @ 8.62 PPG		
01/23/2025	04:26:10	139	4.7	8.59	38.1	8.31			
01/23/2025	04:26:20	141	4.8	8.33	38.9	8.31			
01/23/2025	04:26:30	132	5.5	8.33	39.7	8.31			
01/23/2025	04:26:40	152	4.8	8.57	40.6	8.32			
01/23/2025	04:26:50	235	5.9	8.61	41.4	8.32			
01/23/2025	04:27:00	256	6.5	8.63	42.5	8.31			
01/23/2025	04:27:10	188	6.1	8.66	43.6	8.29			
01/23/2025	04:27:20	175	5.4	8.54	44.5	8.29			
01/23/2025	04:27:30	191	5.3	8.67	45.4	8.29			
01/23/2025	04:27:40	215	5.3	8.66	46.3	8.29			
01/23/2025	04:27:50	203	5.3	8.61	47.2	8.32			
01/23/2025	04:28:00	174	5.3	8.58	48.1	8.32			
01/23/2025	04:28:10	213	5.3	8.62	49.0	8.32			
01/23/2025	04:28:20	190	5.3	8.64	49.9	8.31			
01/23/2025	04:28:30	187	5.4	8.64	50.7	8.31			
01/23/2025	04:28:40	222	5.4	8.60	51.6	8.31			
01/23/2025	04:28:50	198	5.4	8.41	52.5	8.31			
01/23/2025	04:29:00	179	5.3	8.54	53.4	8.31			
01/23/2025	04:29:10	219	5.4	8.55	54.3	8.31			
01/23/2025	04:29:20	181	5.4	8.55	55.2	8.31			
01/23/2025	04:29:30	180	5.4	8.54	56.1	10.20			
01/23/2025	04:29:40	203	5.4	8.54	57.0	12.78			
01/23/2025	04:29:50	189	5.4	8.52	57.9	14.86			
01/23/2025	04:30:00	187	5.4	8.49	58.8	15.56			
01/23/2025	04:30:10	150	5.3	8.44	59.7	15.26			
01/23/2025	04:30:20	150	3.5	10.94	60.4	15.40			
01/23/2025	04:30:30	151	3.3	12.56	61.0	15.60			
01/23/2025	04:30:40	201	3.4	13.47	61.5	15.79			
01/23/2025	04:30:50	231	4.5	14.02	62.2	15.76			
01/23/2025	04:31:00	236	4.6	14.32	62.9	15.74			
01/23/2025	04:31:20	293	5.3	14.77	64.6	15.79			
01/23/2025	04:31:30	384	5.9	14.93	65.5	15.78			
01/23/2025	04:31:40	384	6.5	15.08	66.6	15.74			
01/23/2025	04:31:50	405	6.6	15.18	67.7	15.71			
01/23/2025	04:32:00	439	6.6	15.27	68.8	15.86			
01/23/2025	04:32:10	430	6.6	15.37	69.9	15.81			
01/23/2025	04:32:20	413	6.6	15.42	71.0	15.75			
01/23/2025	04:32:30	439	6.6	15.47	72.1	15.72			
01/23/2025	04:32:40	430	6.6	15.52	73.2	15.69			
01/23/2025	04:32:50	433	6.6	15.55	74.3	15.67			

Well			Field		Job Start	Customer		Job Number
MICHAEL SOUTHWORTH 10H 10H			SOUTHWORTH		Jan/22/2025	SWN		A.1059713.12.24
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/H	Density LB/G	Volume BBL	CPF1_MIX_DENSITY LB/G	Message	
01/23/2025	04:33:10	399	6.6	15.59	76.5	15.64		
01/23/2025	04:33:30	463	6.6	15.64	78.7	15.76		
01/23/2025	04:33:40	418	6.6	15.66	79.8	15.74		
01/23/2025	04:33:50	400	6.6	15.68	80.9	15.70		
01/23/2025	04:34:00	387	6.6	15.69	82.0	15.67		
01/23/2025	04:34:10	395	6.6	15.70	83.1	15.65		
01/23/2025	04:34:20	413	6.6	15.67	84.2	15.63		
01/23/2025	04:34:30	400	6.6	15.64	85.3	15.61		
01/23/2025	04:34:40	367	6.6	15.63	86.4	15.59		
01/23/2025	04:34:50	378	6.6	15.64	87.5	15.64		
01/23/2025	04:35:00	378	6.6	15.65	88.6	15.62		
01/23/2025	04:35:10	419	6.6	15.65	89.7	15.60		
01/23/2025	04:35:20	403	6.6	15.66	90.8	15.61		
01/23/2025	04:35:40	372	6.6	15.67	93.0	15.59		
01/23/2025	04:35:50	392	6.6	15.67	94.1	15.61		
01/23/2025	04:36:00	411	6.6	15.67	95.2	15.63		
01/23/2025	04:36:10	405	6.6	15.68	96.3	15.60		
01/23/2025	04:36:20	353	6.6	15.68	97.4	15.58		
01/23/2025	04:36:30	362	6.6	15.67	98.5	15.54		
01/23/2025	04:36:40	419	6.6	15.67	99.6	15.55		
01/23/2025	04:36:50	388	6.6	15.67	100.7	15.58		
01/23/2025	04:37:00	393	6.6	15.67	101.8	15.61		
01/23/2025	04:37:10	357	6.6	15.68	102.9	15.64		
01/23/2025	04:37:20	343	6.6	15.68	104.0	15.64		
01/23/2025	04:37:30	352	6.6	15.69	105.1	15.60		
01/23/2025	04:37:50	341	6.6	15.68	107.3	15.63		
01/23/2025	04:38:00	357	6.6	15.65	108.4	15.68		
01/23/2025	04:38:10	340	6.6	15.62	109.5	15.68		
01/23/2025	04:38:20	362	6.6	15.62	110.6	15.63		
01/23/2025	04:38:30	362	6.6	15.62	111.7	15.59		
01/23/2025	04:38:40	392	6.6	15.63	112.8	15.59		
01/23/2025	04:38:50	328	6.6	15.63	113.9	15.59		
01/23/2025	04:39:00	338	6.6	15.64	115.0	15.59		
01/23/2025	04:39:10	377	6.6	15.64	116.1	15.59		
01/23/2025	04:39:20	402	6.6	15.65	117.2	15.62		
01/23/2025	04:39:30	366	6.6	15.65	118.3	15.67		
01/23/2025	04:39:40	361	6.6	15.67	119.4	15.69		
01/23/2025	04:40:00	356	6.6	15.67	121.6	15.57		
01/23/2025	04:40:10	392	6.6	15.67	122.7	15.51		
01/23/2025	04:40:20	383	6.6	15.66	123.8	15.51		
01/23/2025	04:40:30	334	6.6	15.65	124.9	15.53		
01/23/2025	04:40:40	328	6.6	15.65	126.0	15.54		
01/23/2025	04:40:50	325	6.6	15.65	127.1	15.49		
01/23/2025	04:41:00	345	6.6	15.64	128.2	15.66		
01/23/2025	04:41:10	348	6.6	15.66	129.3	15.76		
01/23/2025	04:41:20	332	6.6	15.67	130.4	15.61		
01/23/2025	04:41:30	331	6.6	15.66	131.5	15.61		
01/23/2025	04:41:40	343	6.6	15.67	132.6	15.62		
01/23/2025	04:41:50	346	6.6	15.67	133.8	15.62		
01/23/2025	04:42:10	328	6.6	15.66	136.0	15.53		
01/23/2025	04:42:20	364	6.6	15.66	137.1	15.55		
01/23/2025	04:42:30	363	6.6	15.66	138.2	15.58		
01/23/2025	04:42:40	351	6.6	15.66	139.3	15.55		
01/23/2025	04:42:50	376	6.6	15.65	140.4	15.54		

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Well MICHAEL SOUTHWORTH 10H 10H			Field SOUTHWORTH		Job Start Jan/22/2025		Customer SWN		Job Number A.1059713.12.24
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_MIX_DENSITY LB/G	Message		
01/23/2025	04:43:10	341	6.6	15.65	142.6	15.55			
01/23/2025	04:43:20	404	6.6	15.65	143.7	15.52			
01/23/2025	04:43:30	363	6.6	15.64	144.8	15.53			
01/23/2025	04:43:40	353	6.6	15.64	145.9	15.53			
01/23/2025	04:43:50	330	6.6	15.64	147.0	15.60			
01/23/2025	04:44:00	316	6.6	15.64	148.1	15.60			
01/23/2025	04:44:10	317	6.6	15.65	149.2	15.60			
01/23/2025	04:44:20	371	6.6	15.65	150.3	15.60			
01/23/2025	04:44:30	314	6.6	15.65	151.4	15.61			
01/23/2025	04:44:40	322	6.6	15.65	152.5	15.62			
01/23/2025	04:44:50	327	6.6	15.66	153.6	15.61			
01/23/2025	04:45:00	354	6.6	15.66	154.7	15.62			
01/23/2025	04:45:10	360	6.6	15.66	155.8	15.62			
01/23/2025	04:45:20	327	6.6	15.67	156.9	15.63			
01/23/2025	04:45:30	317	6.6	15.67	158.0	15.61			
01/23/2025	04:45:40	322	6.6	15.66	159.1	15.55			
01/23/2025	04:45:50	347	6.6	15.66	160.2	15.55			
01/23/2025	04:46:00	393	6.6	15.65	161.3	15.54			
01/23/2025	04:46:10	385	6.6	15.65	162.4	15.54			
01/23/2025	04:46:20	340	6.6	15.65	163.5	15.54			
01/23/2025	04:46:30	353	6.6	15.64	164.6	15.53			
01/23/2025	04:46:40	359	6.6	15.64	165.7	15.52			
01/23/2025	04:46:50	372	6.6	15.64	166.8	15.58			
01/23/2025	04:47:00	375	6.6	15.64	167.9	15.63			
01/23/2025	04:47:10	298	6.6	15.65	169.0	15.59			
01/23/2025	04:47:20	331	6.6	15.64	170.1	15.52			
01/23/2025	04:47:30	393	6.6	15.63	171.2	15.47			
01/23/2025	04:47:40	314	6.6	15.61	172.3	15.42			
01/23/2025	04:47:50	335	6.6	15.60	173.4	15.40			
01/23/2025	04:48:00	333	6.6	15.60	174.5	15.53			
01/23/2025	04:48:10	326	6.6	15.60	175.6	15.54			
01/23/2025	04:48:20	337	6.6	15.60	176.7	15.54			
01/23/2025	04:48:30	333	6.6	15.59	177.9	15.54			
01/23/2025	04:48:40	300	6.6	15.60	179.0	15.59			
01/23/2025	04:48:50	328	6.6	15.60	180.1	15.62			
01/23/2025	04:49:00	316	6.6	15.60	181.2	15.47			
01/23/2025	04:49:10	369	6.6	15.60	182.3	15.63			
01/23/2025	04:49:20	354	6.6	15.62	183.4	15.67			
01/23/2025	04:49:30	358	6.6	15.63	184.5	15.71			
01/23/2025	04:49:40	330	6.6	15.64	185.6	15.68			
01/23/2025	04:49:50	344	6.6	15.64	186.7	15.55			
01/23/2025	04:50:00	336	6.6	15.63	187.8	15.48			
01/23/2025	04:50:10	380	6.6	15.61	188.9	15.46			
01/23/2025	04:50:20	318	6.6	15.61	190.0	15.51			
01/23/2025	04:50:30	332	6.6	15.60	191.1	15.52			
01/23/2025	04:50:40	321	6.6	15.60	192.2	15.51			
01/23/2025	04:50:50	346	6.6	15.60	193.3	15.51			
01/23/2025	04:51:00	350	6.6	15.60	194.4	15.53			
01/23/2025	04:51:10	338	6.6	15.59	195.5	15.52			
01/23/2025	04:51:20	303	6.6	15.59	196.6	15.51			
01/23/2025	04:51:30	331	6.6	15.58	197.7	15.54			
01/23/2025	04:51:40	325	6.6	15.58	198.8	15.50			
01/23/2025	04:51:50	314	6.6	15.58	199.9	15.51			
01/23/2025	04:52:00	337	6.6	15.58	201.0	15.45			

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Well MICHAEL SOUTHWORTH 10H 10H			Field SOUTHWORTH		Job Start Jan/22/2025		Customer SWN		Job Number A.1059713.12.24
Date	Time 24-hr clock	Treating Pressure PST	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_MIX_DENSITY LB/G	Message		
01/23/2025	04:52:20	320	6.6	15.60	203.2	15.74			
01/23/2025	04:52:30	342	6.6	15.62	204.3	15.68			
01/23/2025	04:52:40	356	6.6	15.62	205.4	15.58			
01/23/2025	04:52:50	391	6.6	15.62	206.5	15.63			
01/23/2025	04:53:00	334	6.6	15.63	207.6	15.66			
01/23/2025	04:53:10	328	6.6	15.63	208.7	15.59			
01/23/2025	04:53:20	354	6.6	15.62	209.8	15.54			
01/23/2025	04:53:30	340	6.6	15.61	210.9	15.51			
01/23/2025	04:53:40	358	6.6	15.61	212.0	15.57			
01/23/2025	04:53:50	348	6.6	15.61	213.1	15.62			
01/23/2025	04:54:00	335	6.6	15.59	214.2	15.57			
01/23/2025	04:54:10	362	6.6	15.58	215.3	15.54			
01/23/2025	04:54:20	387	6.6	15.58	216.4	15.58			
01/23/2025	04:54:30	313	6.6	15.60	217.5	15.63			
01/23/2025	04:54:40	337	6.6	15.61	218.6	15.63			
01/23/2025	04:54:50	330	6.6	15.61	219.7	15.60			
01/23/2025	04:55:00	336	6.6	15.60	220.8	15.46			
01/23/2025	04:55:10	355	6.6	15.59	221.9	15.50			
01/23/2025	04:55:20	312	6.6	15.57	223.1	15.27			
01/23/2025	04:55:30	314	6.6	15.58	224.2	15.45			
01/23/2025	04:55:40	243	6.0	15.58	225.2	15.50			
01/23/2025	04:55:50	221	5.5	15.58	226.2	15.53			
01/23/2025	04:56:00	116	3.9	15.58	227.0	15.53			
01/23/2025	04:56:10	227	5.0	15.58	227.7	15.53			
01/23/2025	04:56:20	221	5.4	15.58	228.6	15.53			
01/23/2025	04:56:30	240	5.4	15.58	229.5	15.53			
01/23/2025	04:56:40	241	5.4	15.58	230.4	15.53			
01/23/2025	04:56:50	230	5.4	15.58	231.3	15.53			
01/23/2025	04:57:00	241	5.4	15.55	232.2	15.53	DROP THE TOP PLUG		
01/23/2025	04:57:10	250	5.4	15.56	233.1	15.53			
01/23/2025	04:57:20	230	5.4	15.56	234.0	15.53			
01/23/2025	04:57:30	236	5.4	15.56	234.9	15.53			
01/23/2025	04:57:40	54	5.2	15.57	235.8	15.53			
01/23/2025	04:57:50	10	0.8	15.89	236.2	15.85			
01/23/2025	04:58:00	9	0.0	15.62	236.3	15.59			
01/23/2025	04:58:10	9	0.0	15.08	236.3	10.08			
01/23/2025	04:58:20	8	0.0	12.41	236.3	10.43			
01/23/2025	04:58:30	9	0.0	11.62	236.3	10.43			
01/23/2025	04:58:40	8	0.0	11.34	236.3	10.45			
01/23/2025	04:58:50	8	0.0	10.99	236.3	10.43			
01/23/2025	04:59:00	6	0.0	10.73	236.3	10.41			
01/23/2025	04:59:10	7	0.0	10.49	236.3	10.22			
01/23/2025	04:59:20	7	0.0	10.35	236.3	10.25			
01/23/2025	04:59:30	152	0.3	10.11	236.3	10.33			
01/23/2025	04:59:40	60	2.3	8.63	236.6	10.31			
01/23/2025	04:59:50	76	3.9	8.39	237.1	10.17			
01/23/2025	05:00:00	66	4.4	8.34	237.8	10.11			
01/23/2025	05:00:10	64	4.5	8.34	238.5	10.15			
01/23/2025	05:00:20	57	4.6	8.34	239.3	10.13			
01/23/2025	05:00:30	60	4.8	8.34	240.1	10.11			
01/23/2025	05:00:40	45	4.8	8.34	240.9	10.09			
01/23/2025	05:00:50	-5	0.9	8.34	241.4	10.07			
01/23/2025	05:01:00	-14	0.0	8.34	241.4	10.03	START DISPLACEMENT 152 BBLs		
01/23/2025	05:01:10	-17	0.0	8.34	241.4	10.04			

03/13/2026

Well			Field		Job Start	Customer		Job Number
MICHAEL SOUTHWORTH 10H 10H			SOUTHWORTH		Jan/22/2025	SWN		A.1059713.12.24
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	CPFI_MIX_DENSITY LB/G	Message	
01/23/2025	05:01:30	-2	0.0	8.34	241.4	9.73		
01/23/2025	05:01:40	-3	0.0	8.34	241.4	9.59		
01/23/2025	05:01:50	-5	0.0	8.34	241.4	9.44		
01/23/2025	05:02:00	-5	0.0	8.34	241.4	9.32		
01/23/2025	05:02:10	-5	0.0	8.34	241.4	9.21		
01/23/2025	05:02:20	-5	0.0	8.34	241.4	9.12		
01/23/2025	05:02:30	-6	0.0	8.34	241.4	9.07		
01/23/2025	05:02:40	-6	0.0	8.34	241.4	9.06		
01/23/2025	05:02:50	-6	0.0	8.34	241.4	9.06		
01/23/2025	05:03:00	-6	0.0	8.34	241.4	9.08		
01/23/2025	05:03:10	-6	0.0	8.34	241.4	9.07		
01/23/2025	05:03:20	-7	0.0	8.34	241.4	9.13		
01/23/2025	05:03:30	46	1.0	8.85	241.4	9.20		
01/23/2025	05:03:40	11	2.3	9.39	241.8	9.00		
01/23/2025	05:03:50	45	2.5	9.36	242.2	8.94		
01/23/2025	05:04:00	133	5.7	9.33	242.9	9.13		
01/23/2025	05:04:10	133	6.5	9.30	243.9	9.01		
01/23/2025	05:04:20	139	6.6	9.24	245.0	8.93		
01/23/2025	05:04:30	125	6.5	9.18	246.1	8.87		
01/23/2025	05:04:40	131	6.5	9.14	247.2	8.80		
01/23/2025	05:04:50	132	6.5	9.11	248.2	8.75		
01/23/2025	05:05:00	124	6.5	9.05	249.3	8.70		
01/23/2025	05:05:10	124	6.5	8.98	250.4	8.65		
01/23/2025	05:05:20	116	6.5	8.93	251.5	8.60		
01/23/2025	05:05:30	116	6.5	8.83	252.6	8.56		
01/23/2025	05:05:40	116	6.5	8.73	253.6	8.51		
01/23/2025	05:05:50	124	6.5	8.66	254.7	8.48		
01/23/2025	05:06:00	107	6.5	8.52	255.8	8.46		
01/23/2025	05:06:10	126	6.4	8.61	256.9	8.43		
01/23/2025	05:06:20	120	6.6	8.34	258.0	8.41		
01/23/2025	05:06:30	112	6.5	8.37	259.1	8.40		
01/23/2025	05:06:40	116	6.5	8.50	260.2	8.37		
01/23/2025	05:06:50	126	6.5	8.25	261.2	8.36		
01/23/2025	05:07:00	98	6.7	8.03	262.3	8.36		
01/23/2025	05:07:10	79	6.8	7.59	263.5	8.32		
01/23/2025	05:07:20	103	6.9	7.69	264.6	8.34		
01/23/2025	05:07:30	117	6.7	8.00	265.8	8.33		
01/23/2025	05:07:40	101	6.5	8.15	266.9	8.33		
01/23/2025	05:07:50	123	6.5	8.18	268.0	8.32		
01/23/2025	05:08:00	122	6.5	8.21	269.0	8.32		
01/23/2025	05:08:10	114	6.5	8.23	270.1	8.33		
01/23/2025	05:08:20	118	6.4	8.28	271.2	8.32		
01/23/2025	05:08:30	122	6.5	8.28	272.3	8.30		
01/23/2025	05:08:40	122	6.5	8.29	273.4	8.31		
01/23/2025	05:08:50	112	6.5	8.30	274.4	8.31		
01/23/2025	05:09:00	130	6.5	8.29	275.5	8.33		
01/23/2025	05:09:10	125	6.5	8.26	276.6	8.33		
01/23/2025	05:09:20	130	6.5	8.29	277.7	8.31		
01/23/2025	05:09:30	124	6.5	8.29	278.8	8.31		
01/23/2025	05:09:40	132	6.5	8.30	279.8	8.31		
01/23/2025	05:09:50	144	6.6	8.32	280.9	8.31		
01/23/2025	05:10:00	142	6.6	8.32	282.0	8.31		
01/23/2025	05:10:10	149	6.6	8.31	283.1	8.30		
01/23/2025	05:10:20	161	6.6	8.32	284.2	8.32		

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Well			Field		Job Start		Customer		Job Number	
MICHAEL SOUTHWORTH 10H 10H			SOUTHWORTH		Jan/22/2025		SWN		A.1059713.12.24	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_MIX_DENSITY LB/G	Message			
01/23/2025	05:10:40	161	6.6	8.31	286.4	8.32				
01/23/2025	05:10:50	178	6.6	8.31	287.5	8.32				
01/23/2025	05:11:00	182	6.6	8.33	288.6	8.31				
01/23/2025	05:11:10	186	6.6	8.34	289.7	8.31				
01/23/2025	05:11:20	205	6.6	8.33	290.8	8.31				
01/23/2025	05:11:30	222	6.6	8.33	291.9	8.31				
01/23/2025	05:11:40	207	6.6	8.31	293.0	8.31				
01/23/2025	05:11:50	216	6.6	8.30	294.1	8.31				
01/23/2025	05:12:00	240	6.6	8.26	295.2	8.31				
01/23/2025	05:12:10	249	6.5	8.25	296.3	8.31				
01/23/2025	05:12:20	278	6.5	8.24	297.4	8.31				
01/23/2025	05:12:30	249	6.5	8.10	298.5	8.32				
01/23/2025	05:12:40	233	6.5	8.13	299.6	8.29				
01/23/2025	05:12:50	252	6.5	8.14	300.6	8.26				
01/23/2025	05:13:00	298	6.5	8.22	301.7	8.27				
01/23/2025	05:13:10	333	6.5	8.24	302.8	8.26				
01/23/2025	05:13:20	345	6.6	8.34	303.9	8.32				
01/23/2025	05:13:30	335	6.6	8.34	305.0	8.32				
01/23/2025	05:13:40	368	6.6	8.34	306.1	8.32				
01/23/2025	05:13:50	370	6.6	8.34	307.2	8.32				
01/23/2025	05:14:00	421	6.6	8.34	308.3	8.32				
01/23/2025	05:14:10	406	6.6	8.34	309.4	8.32				
01/23/2025	05:14:20	389	6.6	8.34	310.5	8.32				
01/23/2025	05:14:30	359	6.6	8.34	311.6	8.32				
01/23/2025	05:14:40	475	6.6	8.34	312.7	8.33				
01/23/2025	05:14:50	459	6.6	8.35	313.7	8.33				
01/23/2025	05:15:00	446	6.6	8.34	314.8	8.33				
01/23/2025	05:15:10	446	6.6	8.34	315.9	8.33				
01/23/2025	05:15:20	430	6.5	8.34	317.0	8.32				
01/23/2025	05:15:30	435	6.6	8.34	318.1	8.32				
01/23/2025	05:15:40	553	6.6	8.34	319.2	8.32				
01/23/2025	05:15:50	473	6.5	8.34	320.3	8.32				
01/23/2025	05:16:00	463	6.6	8.34	321.4	8.32				
01/23/2025	05:16:10	476	6.6	8.34	322.5	8.31				
01/23/2025	05:16:20	496	6.6	8.34	323.6	8.32				
01/23/2025	05:16:30	557	6.6	8.34	324.7	8.32				
01/23/2025	05:16:40	597	6.6	8.34	325.8	7.04				
01/23/2025	05:16:50	515	6.6	8.34	326.9	5.77				
01/23/2025	05:17:00	527	6.6	8.34	328.0	0.53				
01/23/2025	05:17:10	574	6.6	8.34	329.1	0.16				
01/23/2025	05:17:20	645	6.6	8.34	330.2	0.08				
01/23/2025	05:17:30	669	6.6	8.34	331.2	0.10				
01/23/2025	05:17:40	680	6.6	8.34	332.3	0.06				
01/23/2025	05:17:50	617	6.6	8.34	333.4	0.08				
01/23/2025	05:18:00	665	6.6	8.34	334.5	0.20				
01/23/2025	05:18:10	691	6.6	8.34	335.6	0.23				
01/23/2025	05:18:20	745	6.6	8.34	336.7	0.20				
01/23/2025	05:18:30	678	2.3	8.34	337.6	0.12				
01/23/2025	05:18:40	676	0.1	8.34	337.8	0.14				
01/23/2025	05:18:50	662	0.0	8.34	337.8	0.07				
01/23/2025	05:19:00	766	0.0	8.34	337.8	0.05				
01/23/2025	05:19:10	707	0.0	8.34	337.8	0.03				
01/23/2025	05:19:20	740	0.0	8.34	337.8	0.02				
01/23/2025	05:19:30	724	0.0	8.34	337.8	0.02				

Well			Field		Job Start		Customer		Job Number	
MICHAEL SOUTHWORTH 10H 10H			SOUTHWORTH		Jan/22/2025		SWN		A.1059713.12.24	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_MIX_DENSITY LB/G	Message			
01/23/2025	05:19:50	817	0.0	8.34	337.8	0.02				
01/23/2025	05:20:00	772	4.1	8.38	338.0	0.02				
01/23/2025	05:20:10	703	6.4	8.34	338.9	0.02				
01/23/2025	05:20:20	754	6.6	8.34	340.0	0.01				
01/23/2025	05:20:30	772	6.6	8.34	341.1	0.02				
01/23/2025	05:20:40	875	6.6	8.34	342.2	0.01				
01/23/2025	05:20:50	905	6.6	8.34	343.3	0.01				
01/23/2025	05:21:00	894	6.6	8.34	344.4	0.01				
01/23/2025	05:21:10	842	6.6	8.34	345.5	0.01				
01/23/2025	05:21:20	743	5.8	8.34	346.6	0.01				
01/23/2025	05:21:30	795	3.9	8.34	347.4	0.01				
01/23/2025	05:21:40	647	3.5	8.34	348.0	0.01				
01/23/2025	05:21:50	661	3.4	8.34	348.6	0.01				
01/23/2025	05:22:00	624	3.4	8.34	349.1	0.01				
01/23/2025	05:22:10	726	3.4	8.34	349.7	0.01				
01/23/2025	05:22:20	770	3.4	8.34	350.3	0.01				
01/23/2025	05:22:30	730	3.4	8.34	350.8	0.01				
01/23/2025	05:22:40	663	3.4	8.34	351.4	0.01				
01/23/2025	05:22:50	700	3.4	8.34	352.0	0.01				
01/23/2025	05:23:00	666	3.4	8.34	352.5	0.01				
01/23/2025	05:23:10	722	3.4	8.34	353.1	0.01				
01/23/2025	05:23:20	767	3.4	8.34	353.7	0.01				
01/23/2025	05:23:30	659	3.4	8.34	354.2	0.01				
01/23/2025	05:23:40	699	3.4	8.34	354.8	0.01				
01/23/2025	05:23:50	707	3.4	8.34	355.4	0.01				
01/23/2025	05:24:00	816	3.4	8.34	355.9	0.01				
01/23/2025	05:24:10	912	4.5	8.34	356.6	0.01				
01/23/2025	05:24:20	726	4.6	8.34	357.4	0.01				
01/23/2025	05:24:30	750	4.7	8.34	358.2	0.01				
01/23/2025	05:24:40	807	4.7	8.34	358.9	0.01				
01/23/2025	05:24:50	878	4.7	8.34	359.7	0.01				
01/23/2025	05:25:00	986	4.7	8.34	360.5	0.01				
01/23/2025	05:25:10	934	4.7	8.34	361.3	0.01				
01/23/2025	05:25:20	842	4.7	8.34	362.0	0.01				
01/23/2025	05:25:30	975	4.7	8.34	362.8	0.01				
01/23/2025	05:25:40	852	4.1	8.34	363.6	0.01				
01/23/2025	05:25:50	907	3.5	8.34	364.2	0.01				
01/23/2025	05:26:00	883	4.6	8.34	364.8	0.01				
01/23/2025	05:26:10	682	3.6	8.34	365.5	0.01				
01/23/2025	05:26:20	713	3.4	8.34	366.1	0.01				
01/23/2025	05:26:30	862	3.4	8.34	366.7	0.01				
01/23/2025	05:26:40	748	3.3	8.34	367.2	0.01				
01/23/2025	05:26:50	783	3.1	8.34	367.8	0.01				
01/23/2025	05:27:00	780	2.2	8.34	368.2	0.01				
01/23/2025	05:27:10	754	2.2	8.34	368.6	0.01				
01/23/2025	05:27:20	810	2.2	8.34	368.9	0.01				
01/23/2025	05:27:30	778	2.1	8.34	369.3	0.01				
01/23/2025	05:27:40	758	2.1	8.34	369.6	0.01				
01/23/2025	05:27:50	728	2.1	8.34	370.0	0.01				
01/23/2025	05:28:00	708	2.1	8.34	370.3	0.01				
01/23/2025	05:28:10	750	2.4	8.34	370.7	0.01				
01/23/2025	05:28:20	751	1.9	8.34	371.1	0.01				
01/23/2025	05:28:30	773	2.3	8.34	371.4	0.01				
01/23/2025	05:28:40	801	2.2	8.34	371.8	0.01				

Well			Field		Job Start		Customer		Job Number
MICHAEL SOUTHWORTH 10H 10H			SOUTHWORTH		Jan/22/2025		SWN		A.1059713.12.24
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_MIX_DENSITY LB/G	Message		
01/23/2025	05:29:00	809	2.1	8.34	372.5	0.01			
01/23/2025	05:29:10	813	2.1	8.34	372.9	0.01			
01/23/2025	05:29:20	813	2.1	8.34	373.2	0.01			
01/23/2025	05:29:30	813	2.1	8.34	373.6	0.01			
01/23/2025	05:29:40	830	2.1	8.34	374.0	0.01			
01/23/2025	05:29:50	821	2.1	8.34	374.3	0.01			
01/23/2025	05:30:00	825	2.1	8.34	374.7	0.01			
01/23/2025	05:30:10	843	2.1	8.34	375.0	0.01			
01/23/2025	05:30:20	837	2.1	8.34	375.4	0.01			
01/23/2025	05:30:30	834	2.1	8.34	375.7	0.01			
01/23/2025	05:30:40	853	2.1	8.34	376.1	0.00			
01/23/2025	05:30:50	845	2.1	8.34	376.5	0.00			
01/23/2025	05:31:00	843	2.1	8.34	376.8	0.00			
01/23/2025	05:31:10	842	2.1	8.34	377.2	0.01			
01/23/2025	05:31:20	857	2.1	8.34	377.5	0.01			
01/23/2025	05:31:30	863	2.1	8.34	377.9	0.01			
01/23/2025	05:31:40	869	2.1	8.34	378.2	0.01			
01/23/2025	05:31:50	862	2.1	8.34	378.6	0.01			
01/23/2025	05:32:00	871	2.1	8.34	379.0	0.00			
01/23/2025	05:32:10	864	2.1	8.34	379.3	0.00			
01/23/2025	05:32:20	868	2.1	8.34	379.7	0.00			
01/23/2025	05:32:30	885	2.1	8.34	380.0	0.01			
01/23/2025	05:32:40	882	2.1	8.34	380.4	0.00			
01/23/2025	05:32:50	874	2.1	8.34	380.8	0.00			
01/23/2025	05:33:10	890	2.1	8.34	381.5	0.00			
01/23/2025	05:33:20	884	2.1	8.34	381.8	0.00			
01/23/2025	05:33:30	880	2.1	8.34	382.2	0.00			
01/23/2025	05:33:40	898	2.1	8.34	382.5	0.00			
01/23/2025	05:33:50	901	2.1	8.34	382.9	0.00			
01/23/2025	05:34:00	898	2.1	8.34	383.3	0.00			
01/23/2025	05:34:10	905	2.1	8.34	383.6	0.00			
01/23/2025	05:34:20	904	2.1	8.34	384.0	0.00			
01/23/2025	05:34:30	905	2.1	8.34	384.3	0.00			
01/23/2025	05:34:40	904	2.1	8.34	384.7	0.00			
01/23/2025	05:34:50	916	2.1	8.34	385.0	0.00			
01/23/2025	05:35:00	917	2.1	8.34	385.4	0.00	BUMP THE PLUG 1472 PSI		
01/23/2025	05:35:20	1061	2.1	8.34	386.1	0.00			
01/23/2025	05:35:30	1493	1.8	8.34	386.5	0.00			
01/23/2025	05:35:40	1493	0.2	8.35	386.6	0.00			
01/23/2025	05:35:50	1493	0.0	8.35	386.6	0.00			
01/23/2025	05:36:00	1489	0.0	8.35	386.6	0.00			
01/23/2025	05:36:10	1487	0.0	8.35	386.6	0.00			
01/23/2025	05:36:20	1485	0.0	8.35	386.6	0.00			
01/23/2025	05:36:30	1485	0.0	8.35	386.6	0.00			
01/23/2025	05:36:40	1484	0.0	8.35	386.6	0.00			
01/23/2025	05:36:50	1482	0.0	8.35	386.6	0.00			
01/23/2025	05:37:00	1481	0.0	8.35	386.6	0.00			
01/23/2025	05:37:10	1479	0.0	8.35	386.6	0.00			
01/23/2025	05:37:30	1476	0.0	8.35	386.6	0.00			
01/23/2025	05:37:40	1475	0.0	8.35	386.6	0.00			
01/23/2025	05:37:50	1474	0.0	8.35	386.6	0.00			
01/23/2025	05:38:00	1473	0.0	8.35	386.6	0.00	CHECK FLOW BACK 0.75 BBLs		
01/23/2025	05:38:10	1473	0.0	8.35	386.6	0.00			
01/23/2025	05:38:20	1471	0.0	8.35	386.6	0.00			

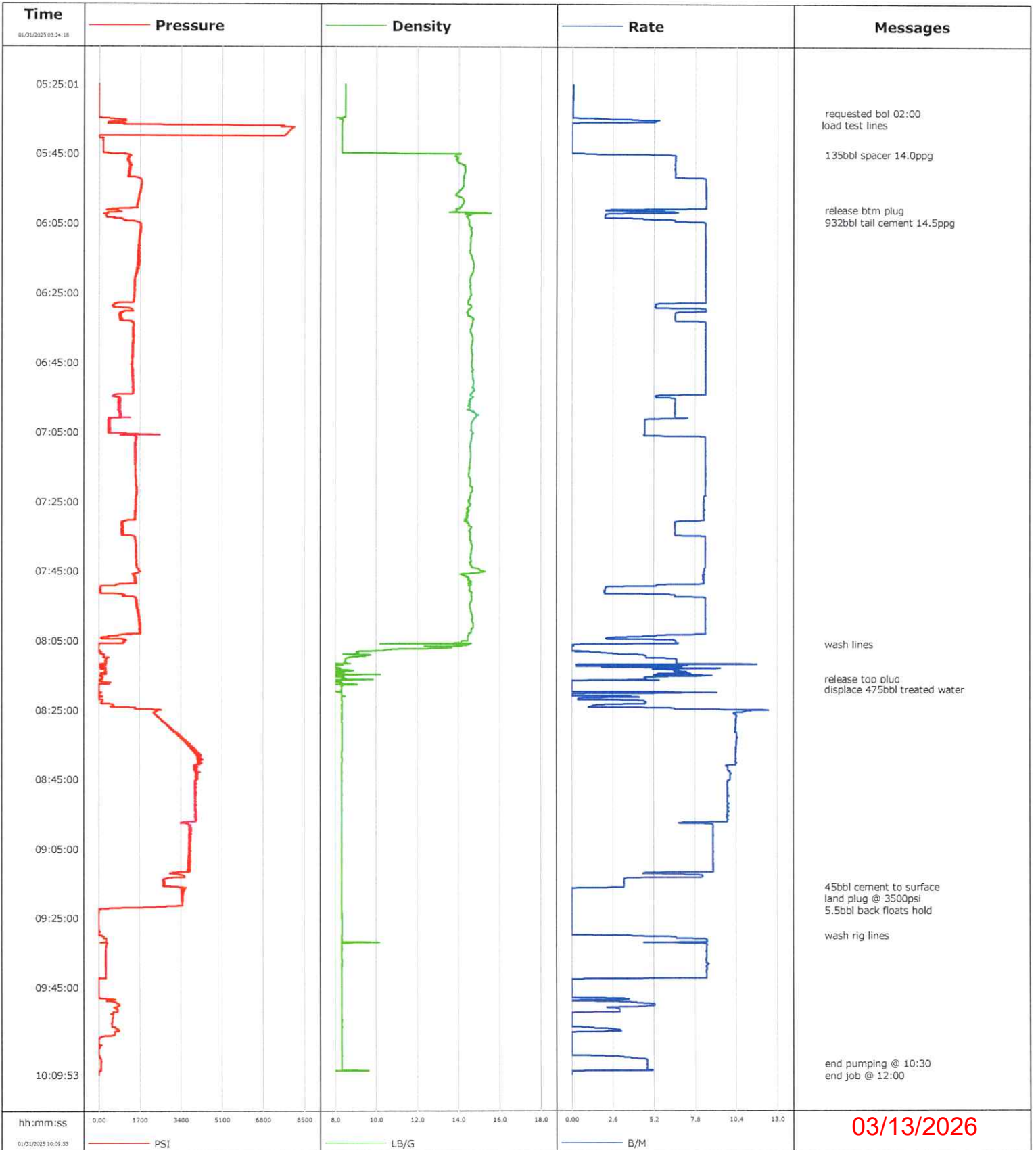
Well MICHAEL SOUTHWORTH 10H 10H			Field SOUTHWORTH		Job Start Jan/22/2025		Customer SWN		Job Number A.1059713.12.24	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_MTX_DENSITY LB/G	Message			
01/23/2025	05:38:40	1471	0.0	8.35	386.6	0.00				
01/23/2025	05:38:50	1470	0.0	8.35	386.6	0.00				

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.1	N2 0	Mud	Maximum Rate 7.7		Total Slurry 386.6	Mud 0.0	Spacer 0.0	N2 0
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 4115	Final 8	Average 474	Bump Plug to 1472	Breakdown	Type FreshWater	Volume 1500.0 bbl		Density 8.34 lb/gal
Avg. N2 Percent 0.0 %	Designed Slurry Volume 172.0 bbl		Displacement 0.0 bbl	Mix Water Temp 56 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 42.0 bbl		To 2012.0 ft
Customer or Authorized Representative			Schlumberger Supervisor RAUL SEGOVIA			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	

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<b>Well</b>	Michael Southworth 10H	<b>Client</b>	Expand Energy
<b>Field</b>	Wildcat	<b>SIR No.</b>	1059713.12.29
<b>Engineer</b>	Danny Cover	<b>Job Type</b>	Production
<b>Country</b>	United States	<b>Job Date</b>	01-31-2025



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# Cementing Service Report

				Customer Expand Energy			Job Number 1059713.12.29								
Well Michael Southworth 10H 10H			Location (Legal) 47-051-02518-00-00			Schlumberger Location Strasburg			Job Start Jan/31/2025						
Field Wildcat		Formation Name/Type			Deviation deg		Bit Size 8.5 in		Well MD 21463.0 ft		Well TVD 6414.0 ft				
County Marshall		State/ProvinWest Virginia			BHP psi		BHST degF		BHCT degF		Pore Press. Gradient lb/gal				
Well Master 0067400758		API/UWI 47-051-02518-00-00													
Rig Name 41		Drilled For Gas		Service Via Land		Casing/Liner									
						Depth, ft		Size, in		Weight, lb/ft		Grade	Thread		
Offshore Zone		Well Class New		Well Type Exploration		2012.0		9.6		36.0		N/A	N/A		
						21643.0		5.5		20.0		110	BUTT		
Drilling Fluid Type			Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe								
Service Line Cementing		Job Type Production					T/D		Depth, ft		Size, in		Weight, lb/ft	Grade	Thread
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole									
						Top, ft		Bottom, ft		shot/ft		No. of Shots	Total Interval ft		
						ft		ft					Diameter in		
						ft		ft							
						Treat Down Casing		Displacement 475.0 bbl		Packer Type		Packer Depth ft			
						Tubing Vol. bbl		Casing Vol. 475.0 bbl		Annular Vol. bbl		Openhole Vol. bbl			
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>			Casing Tools				Squeeze Job						
Lift Pressure psi		Pipe Rotated <input type="checkbox"/>			Pipe Reciprocated <input type="checkbox"/>			Shoe Type Float		Squeeze Type					
Pipe Rotated		Pipe Reciprocated			Shoe Depth 21463.0 ft		Tool Type								
No. Centralizers		Top Plugs 1		Bottom Plugs 1		Stage Tool Type			Tool Depth ft						
Cement Head Type Single		Stage Tool Depth ft			Tail Pipe Size in										
Job Scheduled For Jan/31/2025 03:20		Arrived on Location Jan/31/2025 02:00		Leave Location Jan/31/2025 12:30		Collar Type Float		Tail Pipe Depth ft		Sqz. Total Vol. bbl					
						Collar Depth 21416.0 ft									
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message									
01/31/2025	03:24:18	1	0.0	0.02	0.0										
01/31/2025	03:24:48	2	0.0	0.02	0.0										
01/31/2025	03:25:18	1	0.0	0.02	0.0										
01/31/2025	03:25:48	1	0.0	0.02	0.0										
01/31/2025	03:26:18	1	0.0	0.02	0.0										
01/31/2025	03:26:48	1	0.0	0.02	0.0										
01/31/2025	03:27:18	1	0.0	0.02	0.0										
01/31/2025	03:27:48	1	0.0	0.02	0.0										
01/31/2025	03:28:18	1	0.0	0.02	0.0										
01/31/2025	03:28:48	1	0.0	0.02	0.0										
01/31/2025	03:29:18	1	0.0	0.02	0.0										
01/31/2025	03:29:48	1	0.0	0.02	0.0										
01/31/2025	03:30:18	1	0.0	0.02	0.0										
01/31/2025	03:30:48	1	0.0	0.02	0.0										
01/31/2025	03:38:18	1	0.0	0.02	0.0										
01/31/2025	03:38:48	1	0.0	0.02	0.0										
01/31/2025	03:39:18	1	0.0	0.02	0.0										
01/31/2025	03:39:48	1	0.0	0.02	0.0										
01/31/2025	03:40:18	1	0.0	0.02	0.0										
01/31/2025	03:40:48	1	0.0	0.02	0.0										
01/31/2025	03:41:18	1	0.0	0.02	0.0										

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Well		Field		Job Start		Customer		Job Number	
Michael Southworth 10H 10H		Wildcat		Jan/31/2025		Expand Energy		1059713.12.29	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/31/2025	03:42:18	1	0.0	0.02	0.0				
01/31/2025	03:42:48	1	0.0	0.02	0.0				
01/31/2025	03:43:18	1	0.0	0.02	0.0				
01/31/2025	03:43:48	1	0.0	0.02	0.0				
01/31/2025	03:44:18	0	0.0	0.02	0.0				
01/31/2025	03:44:48	1	0.0	0.02	0.0				
01/31/2025	03:45:18	1	0.0	0.02	0.0				
01/31/2025	03:45:48	1	0.0	0.02	0.0				
01/31/2025	03:46:18	1	0.0	0.02	0.0				
01/31/2025	03:46:48	1	0.0	0.02	0.0				
01/31/2025	03:47:18	1	0.0	0.02	0.0				
01/31/2025	03:47:48	1	0.0	0.02	0.0				
01/31/2025	03:48:18	1	0.0	0.02	0.0				
01/31/2025	03:48:48	1	0.0	0.02	0.0				
01/31/2025	03:49:18	1	0.0	0.02	0.0				
01/31/2025	03:49:48	1	0.0	0.02	0.0				
01/31/2025	03:50:18	1	0.0	0.02	0.0				
01/31/2025	03:50:48	1	0.0	0.02	0.0				
01/31/2025	03:51:18	0	0.0	0.02	0.0				
01/31/2025	03:51:48	1	0.0	0.02	0.0				
01/31/2025	03:52:18	1	0.0	0.02	0.0				
01/31/2025	03:52:48	1	0.0	0.02	0.0				
01/31/2025	03:53:18	1	0.0	0.02	0.0				
01/31/2025	03:53:48	1	0.0	0.02	0.0				
01/31/2025	03:54:18	1	0.0	0.02	0.0				
01/31/2025	03:54:48	1	0.0	0.02	0.0				
01/31/2025	03:55:18	1	0.0	0.02	0.0				
01/31/2025	03:55:48	1	0.0	0.02	0.0				
01/31/2025	03:56:18	1	0.0	0.02	0.0				
01/31/2025	03:56:48	1	0.0	0.02	0.0				
01/31/2025	03:57:18	1	0.0	0.02	0.0				
01/31/2025	03:58:18	1	0.0	0.02	0.0				
01/31/2025	03:58:48	1	0.0	0.02	0.0				
01/31/2025	03:59:18	1	0.0	0.02	0.0				
01/31/2025	03:59:48	1	0.0	0.02	0.0				
01/31/2025	04:00:18	1	0.0	0.02	0.0				
01/31/2025	04:00:48	1	0.0	0.02	0.0				
01/31/2025	04:01:18	1	0.0	0.02	0.0				
01/31/2025	04:01:48	1	0.0	0.02	0.0				
01/31/2025	04:02:18	0	0.0	0.02	0.0				
01/31/2025	04:02:48	1	0.0	0.02	0.0				
01/31/2025	04:03:18	1	0.0	0.02	0.0				
01/31/2025	04:03:48	1	0.0	0.02	0.0				
01/31/2025	04:04:48	0	0.0	0.02	0.0				
01/31/2025	04:05:18	1	0.0	0.02	0.0				
01/31/2025	04:05:48	1	0.0	0.02	0.0				
01/31/2025	04:06:18	1	0.0	0.02	0.0				
01/31/2025	04:06:48	1	0.0	0.02	0.0				
01/31/2025	04:07:18	1	0.0	0.02	0.0				
01/31/2025	04:07:48	1	0.0	0.02	0.0				
01/31/2025	04:08:18	1	0.0	0.02	0.0				
01/31/2025	04:08:48	1	0.0	0.02	0.0				
01/31/2025	04:09:18	1	0.0	0.02	0.0				
01/31/2025	04:09:48	1	0.0	0.02	0.0				

Well		Field		Job Start		Customer		Job Number	
Michael Southworth 10H 10H		Wildcat		Jan/31/2025		Expand Energy		1059713.12.29	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/31/2025	04:10:48	1	0.0	0.02	0.0				
01/31/2025	04:11:18	1	0.0	0.02	0.0				
01/31/2025	04:11:48	1	0.0	0.02	0.0				
01/31/2025	04:12:18	1	0.0	0.02	0.0				
01/31/2025	04:12:48	1	0.0	0.02	0.0				
01/31/2025	04:13:18	1	0.0	0.02	0.0				
01/31/2025	04:13:48	1	0.0	0.02	0.0				
01/31/2025	04:14:18	1	0.0	0.02	0.0				
01/31/2025	04:14:48	1	0.0	0.02	0.0				
01/31/2025	04:15:18	1	0.0	0.02	0.0				
01/31/2025	04:15:48	1	0.0	0.02	0.0				
01/31/2025	04:16:18	1	0.0	0.02	0.0				
01/31/2025	04:16:48	1	0.0	0.02	0.0				
01/31/2025	04:17:18	1	0.0	0.02	0.0				
01/31/2025	04:17:48	1	0.0	0.02	0.0				
01/31/2025	04:18:18	0	0.0	0.02	0.0				
01/31/2025	04:18:48	1	0.0	0.02	0.0				
01/31/2025	04:19:18	1	0.0	0.02	0.0				
01/31/2025	04:19:48	0	0.0	0.02	0.0				
01/31/2025	04:20:18	1	0.0	0.02	0.0				
01/31/2025	04:20:48	1	0.0	0.02	0.0				
01/31/2025	04:21:18	1	0.0	0.02	0.0				
01/31/2025	04:21:48	1	0.0	0.02	0.0				
01/31/2025	04:22:18	1	0.0	0.02	0.0				
01/31/2025	04:22:48	1	0.0	0.02	0.0				
01/31/2025	04:23:18	1	0.0	0.02	0.0				
01/31/2025	04:23:48	1	0.0	0.02	0.0				
01/31/2025	04:24:18	1	0.0	0.02	0.0				
01/31/2025	04:24:48	1	0.0	0.02	0.0				
01/31/2025	04:25:18	1	0.0	0.02	0.0				
01/31/2025	04:25:48	1	0.0	0.02	0.0				
01/31/2025	04:26:18	1	0.0	0.02	0.0				
01/31/2025	04:26:48	0	0.0	0.02	0.0				
01/31/2025	04:27:18	1	0.0	0.02	0.0				
01/31/2025	04:27:48	1	0.0	0.02	0.0				
01/31/2025	04:28:18	0	0.0	0.02	0.0				
01/31/2025	04:28:48	1	0.0	0.02	0.0				
01/31/2025	04:29:18	0	0.0	0.02	0.0				
01/31/2025	04:29:48	1	0.0	0.02	0.0				
01/31/2025	04:30:18	1	0.0	0.02	0.0				
01/31/2025	04:30:48	1	0.0	0.02	0.0				
01/31/2025	04:31:18	1	0.0	0.02	0.0				
01/31/2025	04:31:48	1	0.0	0.02	0.0				
01/31/2025	04:32:18	1	0.0	0.02	0.0				
01/31/2025	04:32:48	1	0.0	0.02	0.0				
01/31/2025	04:33:18	1	0.0	0.02	0.0				
01/31/2025	04:33:48	1	0.0	0.02	0.0				
01/31/2025	04:34:18	0	0.0	0.02	0.0				
01/31/2025	04:34:48	1	0.0	0.02	0.0				
01/31/2025	04:35:18	0	0.0	0.02	0.0				
01/31/2025	04:35:48	1	0.0	0.02	0.0				
01/31/2025	04:36:18	0	0.0	0.02	0.0				
01/31/2025	04:36:48	1	0.0	0.02	0.0				
01/31/2025	04:37:18	1	0.0	0.02	0.0				

Well		Field		Job Start	Customer	Job Number
Michael Southworth 10H 10H		Wildcat		Jan/31/2025	Expand Energy	1059713.12.29
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
01/31/2025	04:38:18	0	0.0	0.02	0.0	
01/31/2025	04:38:48	0	0.0	0.02	0.0	
01/31/2025	04:39:18	1	0.0	0.02	0.0	
01/31/2025	04:39:48	0	0.0	0.02	0.0	
01/31/2025	04:40:18	6	2.1	8.47	0.6	
01/31/2025	04:40:48	318	5.2	8.31	1.8	
01/31/2025	04:41:18	71	1.5	8.82	3.8	
01/31/2025	04:41:48	323	0.0	8.68	4.0	
01/31/2025	04:42:18	186	0.0	8.63	4.0	
01/31/2025	04:42:48	35	0.0	8.33	4.0	
01/31/2025	04:43:18	20	0.0	8.33	4.0	
01/31/2025	04:43:48	14	0.0	8.34	4.0	
01/31/2025	04:44:18	11	0.1	8.37	4.0	
01/31/2025	04:44:48	10	0.3	8.37	4.1	
01/31/2025	04:45:18	7	0.1	8.39	4.2	
01/31/2025	04:45:48	81	1.4	8.32	4.5	
01/31/2025	04:46:18	72	0.0	8.32	4.6	
01/31/2025	04:46:48	69	0.0	8.33	4.6	
01/31/2025	04:47:18	54	0.0	8.33	4.6	
01/31/2025	04:47:48	49	0.4	8.39	4.7	
01/31/2025	04:48:18	43	0.5	8.44	4.9	
01/31/2025	04:48:48	39	0.3	8.45	5.1	
01/31/2025	04:49:18	35	0.3	8.43	5.3	
01/31/2025	04:49:48	32	0.1	8.43	5.4	
01/31/2025	04:50:18	28	0.1	8.43	5.4	
01/31/2025	04:50:48	25	0.1	8.43	5.5	
01/31/2025	04:51:18	23	0.1	8.43	5.5	
01/31/2025	04:51:48	20	0.1	8.43	5.6	
01/31/2025	04:52:18	19	0.1	8.43	5.6	
01/31/2025	04:52:48	17	0.1	8.44	5.6	
01/31/2025	04:53:18	16	0.1	8.44	5.7	
01/31/2025	04:53:48	14	0.1	8.44	5.7	
01/31/2025	04:54:18	13	0.1	8.45	5.7	
01/31/2025	04:54:48	11	0.1	8.45	5.8	
01/31/2025	04:55:48	9	0.1	8.45	5.8	
01/31/2025	04:56:18	7	0.1	8.46	5.9	
01/31/2025	04:56:48	7	0.1	8.46	5.9	
01/31/2025	04:57:18	5	0.1	8.46	6.0	
01/31/2025	04:57:48	6	0.1	8.46	6.0	
01/31/2025	04:58:18	6	0.1	8.47	6.1	
01/31/2025	04:58:48	5	0.2	8.47	6.2	
01/31/2025	04:59:18	5	0.2	8.47	6.3	
01/31/2025	04:59:48	5	0.1	8.47	6.3	
01/31/2025	05:00:18	5	0.1	8.47	6.4	
01/31/2025	05:00:48	5	0.1	8.47	6.5	
01/31/2025	05:01:18	4	0.1	8.48	6.5	
01/31/2025	05:02:18	4	0.1	8.48	6.7	
01/31/2025	05:02:48	4	0.2	8.48	6.7	
01/31/2025	05:03:18	4	0.2	8.48	6.8	
01/31/2025	05:03:48	4	0.2	8.48	6.9	
01/31/2025	05:04:18	4	0.2	8.48	7.0	
01/31/2025	05:04:48	4	0.2	8.48	7.1	
01/31/2025	05:05:18	3	0.2	8.48	7.1	
01/31/2025	05:05:48	3	0.1	8.48	7.2	

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Well		Field		Job Start		Customer		Job Number	
Michael Southworth 10H 10H		Wildcat		Jan/31/2025		Expand Energy		1059713.12.29	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/31/2025	05:06:48	3	0.2	8.48	7.4				
01/31/2025	05:07:18	3	0.2	8.48	7.5				
01/31/2025	05:07:48	3	0.1	8.48	7.5				
01/31/2025	05:08:18	4	0.1	8.48	7.6				
01/31/2025	05:08:48	3	0.2	8.48	7.7				
01/31/2025	05:09:18	4	0.2	8.48	7.8				
01/31/2025	05:09:48	3	0.2	8.48	7.8				
01/31/2025	05:10:18	3	0.1	8.48	7.9				
01/31/2025	05:10:48	3	0.2	8.48	8.0				
01/31/2025	05:11:18	4	0.1	8.48	8.1				
01/31/2025	05:11:48	4	0.1	8.48	8.1				
01/31/2025	05:12:18	3	0.1	8.48	8.2				
01/31/2025	05:12:48	3	0.1	8.49	8.3				
01/31/2025	05:13:18	4	0.1	8.49	8.3				
01/31/2025	05:13:48	3	0.1	8.49	8.4				
01/31/2025	05:14:18	3	0.1	8.49	8.5				
01/31/2025	05:14:48	4	0.1	8.49	8.6				
01/31/2025	05:15:18	3	0.1	8.49	8.6				
01/31/2025	05:15:48	3	0.1	8.49	8.7				
01/31/2025	05:16:18	3	0.1	8.49	8.8				
01/31/2025	05:16:48	3	0.1	8.49	8.8				
01/31/2025	05:17:18	3	0.1	8.49	8.9				
01/31/2025	05:17:48	3	0.1	8.49	9.0				
01/31/2025	05:18:18	1	0.1	8.49	9.0				
01/31/2025	05:18:48	1	0.1	8.49	9.1				
01/31/2025	05:19:18	1	0.1	8.49	9.2				
01/31/2025	05:19:48	1	0.1	8.49	9.2				
01/31/2025	05:20:18	3	0.1	8.49	9.3				
01/31/2025	05:20:48	3	0.1	8.49	9.4				
01/31/2025	05:21:18	3	0.1	8.49	9.4				
01/31/2025	05:21:48	3	0.1	8.49	9.5				
01/31/2025	05:22:18	3	0.1	8.49	9.6				
01/31/2025	05:22:48	3	0.1	8.49	9.6				
01/31/2025	05:23:18	3	0.1	8.49	9.7				
01/31/2025	05:23:48	3	0.1	8.49	9.7				
01/31/2025	05:24:18	4	0.1	8.49	9.8				
01/31/2025	05:24:48	4	0.1	8.49	9.9				
01/31/2025	05:25:18	3	0.1	8.49	9.9				
01/31/2025	05:25:48	3	0.1	8.49	10.0				
01/31/2025	05:26:18	4	0.1	8.49	10.0				
01/31/2025	05:26:48	4	0.1	8.49	10.1				
01/31/2025	05:27:18	4	0.1	8.49	10.1				
01/31/2025	05:27:48	4	0.1	8.49	10.2				
01/31/2025	05:28:18	3	0.1	8.49	10.2				
01/31/2025	05:28:48	4	0.1	8.49	10.3				
01/31/2025	05:29:18	4	0.1	8.49	10.3				
01/31/2025	05:29:48	4	0.1	8.49	10.4				
01/31/2025	05:30:18	4	0.1	8.49	10.4				
01/31/2025	05:30:48	5	0.1	8.49	10.4				
01/31/2025	05:31:18	5	0.1	8.49	10.5				
01/31/2025	05:31:48	5	0.1	8.49	10.5				
01/31/2025	05:32:18	5	0.1	8.49	10.5				
01/31/2025	05:32:48	5	0.1	8.49	10.6				
01/31/2025	05:33:00	5	0.1	8.48	10.6	requested bol 02:00			

Well		Field	Job Start	Customer	Job Number	
Michael Southworth 10H 10H		Wildcat	Jan/31/2025	Expand Energy	1059713.12.29	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
01/31/2025	05:33:48	5	0.1	8.48	10.6	
01/31/2025	05:34:00	5	0.1	8.49	10.7	load test lines
01/31/2025	05:34:18	5	0.1	8.49	10.7	
01/31/2025	05:34:48	109	1.7	8.25	10.8	
01/31/2025	05:35:18	1069	4.7	8.34	12.3	
01/31/2025	05:35:48	1059	5.3	8.35	15.0	
01/31/2025	05:36:18	382	0.0	8.33	16.1	
01/31/2025	05:36:48	2734	0.0	8.33	16.1	
01/31/2025	05:37:18	7640	0.0	8.33	16.1	
01/31/2025	05:37:48	7971	0.0	8.33	16.1	
01/31/2025	05:38:18	7885	0.0	8.33	16.1	
01/31/2025	05:38:48	7832	0.0	8.33	16.1	
01/31/2025	05:39:18	7772	0.0	8.33	16.1	
01/31/2025	05:39:48	7683	0.0	8.33	16.1	
01/31/2025	05:40:18	20	0.0	8.33	16.1	
01/31/2025	05:40:48	184	0.0	8.33	16.1	
01/31/2025	05:41:18	182	0.0	8.33	16.1	
01/31/2025	05:41:48	184	0.0	8.33	16.1	
01/31/2025	05:42:18	187	0.0	8.33	16.1	
01/31/2025	05:42:48	189	0.0	8.33	16.1	
01/31/2025	05:43:18	191	0.0	8.33	16.1	
01/31/2025	05:43:48	193	0.0	8.33	16.1	
01/31/2025	05:44:18	195	0.0	8.33	16.1	
01/31/2025	05:44:48	197	0.0	8.32	16.1	
01/31/2025	05:45:00	412	1.4	13.99	16.2	135bbl spacer 14.0ppg
01/31/2025	05:45:18	1206	6.1	13.86	17.3	
01/31/2025	05:45:48	1264	6.6	13.87	20.6	
01/31/2025	05:46:18	1205	6.5	13.93	23.8	
01/31/2025	05:46:48	1211	6.6	13.90	27.1	
01/31/2025	05:47:18	1247	6.6	13.93	30.4	
01/31/2025	05:47:48	1301	6.5	14.02	33.7	
01/31/2025	05:48:18	1258	6.5	14.23	36.9	
01/31/2025	05:48:48	1307	6.5	14.29	40.2	
01/31/2025	05:49:18	1279	6.5	14.29	43.5	
01/31/2025	05:49:48	1249	6.5	14.31	46.7	
01/31/2025	05:50:18	1287	6.5	14.30	50.0	
01/31/2025	05:50:48	1249	6.6	14.28	53.3	
01/31/2025	05:51:18	1259	6.6	14.25	56.6	
01/31/2025	05:51:48	1351	6.5	14.24	59.8	
01/31/2025	05:52:18	1715	8.5	14.23	63.9	
01/31/2025	05:53:18	1779	8.5	14.23	72.4	
01/31/2025	05:53:48	1786	8.5	14.23	76.6	
01/31/2025	05:54:18	1759	8.5	14.21	80.8	
01/31/2025	05:54:48	1769	8.5	14.18	85.1	
01/31/2025	05:55:18	1739	8.5	14.11	89.3	
01/31/2025	05:55:48	1721	8.5	14.01	93.5	
01/31/2025	05:56:18	1723	8.5	13.93	97.8	
01/31/2025	05:56:48	1667	8.5	13.85	102.0	
01/31/2025	05:57:18	1649	8.5	13.99	106.3	
01/31/2025	05:57:48	1651	8.5	14.17	110.5	
01/31/2025	05:58:18	1631	8.5	14.23	114.7	
01/31/2025	05:58:48	1609	8.5	14.24	119.0	
01/31/2025	05:59:18	1604	8.5	14.21	123.2	
01/31/2025	05:59:48	1580	8.5	14.14	127.5	

Well		Field	Job Start	Customer	Job Number	
Michael Southworth 10H 10H		Wildcat	Jan/31/2025	Expand Energy	1059713.12.29	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
01/31/2025	06:00:48	1364	7.4	13.94	135.9	
01/31/2025	06:01:00	596	3.3	13.89	137.0	release btm plug
01/31/2025	06:01:18	392	2.2	13.88	137.7	
01/31/2025	06:01:48	887	6.6	13.62	140.5	
01/31/2025	06:02:00	522	5.1	14.95	141.8	932bbl tail cement 14.5ppg
01/31/2025	06:02:18	365	2.2	14.34	142.6	
01/31/2025	06:02:48	335	2.1	14.50	143.7	
01/31/2025	06:03:18	345	2.1	14.44	144.7	
01/31/2025	06:03:48	991	5.4	14.48	146.6	
01/31/2025	06:04:18	1078	6.5	14.51	149.8	
01/31/2025	06:04:48	1629	8.4	14.50	153.6	
01/31/2025	06:05:18	1719	8.4	14.50	157.8	
01/31/2025	06:05:48	1732	8.4	14.53	162.1	
01/31/2025	06:06:18	1741	8.4	14.62	166.3	
01/31/2025	06:06:48	1748	8.4	14.59	170.5	
01/31/2025	06:07:18	1725	8.4	14.61	174.7	
01/31/2025	06:07:48	1708	8.4	14.63	178.9	
01/31/2025	06:08:18	1704	8.4	14.61	183.2	
01/31/2025	06:08:48	1701	8.4	14.59	187.4	
01/31/2025	06:09:18	1687	8.5	14.57	191.6	
01/31/2025	06:09:48	1666	8.4	14.59	195.8	
01/31/2025	06:10:18	1673	8.5	14.58	200.1	
01/31/2025	06:10:48	1648	8.5	14.57	204.3	
01/31/2025	06:11:18	1636	8.4	14.56	208.5	
01/31/2025	06:11:48	1649	8.4	14.56	212.7	
01/31/2025	06:12:18	1655	8.5	14.55	217.0	
01/31/2025	06:12:48	1643	8.5	14.54	221.2	
01/31/2025	06:13:18	1628	8.5	14.54	225.4	
01/31/2025	06:13:48	1682	8.4	14.57	229.6	
01/31/2025	06:14:18	1645	8.5	14.62	233.9	
01/31/2025	06:14:48	1628	8.4	14.64	238.1	
01/31/2025	06:15:18	1639	8.4	14.66	242.3	
01/31/2025	06:15:48	1633	8.5	14.69	246.5	
01/31/2025	06:16:18	1679	8.4	14.71	250.8	
01/31/2025	06:16:48	1623	8.4	14.72	255.0	
01/31/2025	06:17:18	1622	8.4	14.73	259.2	
01/31/2025	06:17:48	1574	8.4	14.71	263.4	
01/31/2025	06:18:18	1595	8.5	14.70	267.7	
01/31/2025	06:18:48	1573	8.4	14.70	271.9	
01/31/2025	06:19:18	1554	8.4	14.67	276.1	
01/31/2025	06:19:48	1522	8.4	14.62	280.3	
01/31/2025	06:20:18	1520	8.5	14.59	284.6	
01/31/2025	06:20:48	1513	8.5	14.56	288.8	
01/31/2025	06:21:18	1495	8.5	14.54	293.0	
01/31/2025	06:21:48	1491	8.5	14.54	297.3	
01/31/2025	06:22:18	1484	8.5	14.56	301.5	
01/31/2025	06:22:48	1472	8.5	14.58	305.7	
01/31/2025	06:23:18	1470	8.5	14.54	309.9	
01/31/2025	06:23:48	1484	8.5	14.56	314.2	
01/31/2025	06:24:18	1467	8.5	14.59	318.4	
01/31/2025	06:24:48	1486	8.4	14.59	322.6	
01/31/2025	06:25:18	1458	8.5	14.60	326.9	
01/31/2025	06:25:48	1477	8.5	14.57	331.1	
01/31/2025	06:26:18	1451	8.5	14.54	335.3	

Well		Field		Job Start		Customer		Job Number	
Michael Southworth 10H 10H		Wildcat		Jan/31/2025		Expand Energy		1059713.12.29	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/31/2025	06:27:18	1431	8.5	14.45	343.8				
01/31/2025	06:27:48	986	8.5	14.44	348.0				
01/31/2025	06:28:18	674	5.3	14.44	351.0				
01/31/2025	06:28:48	642	5.3	14.60	353.7				
01/31/2025	06:29:18	885	5.9	14.59	356.3				
01/31/2025	06:29:48	1370	8.5	14.49	360.3				
01/31/2025	06:30:18	1075	8.1	14.44	364.6				
01/31/2025	06:30:48	927	6.6	14.42	368.0				
01/31/2025	06:31:18	890	6.5	14.44	371.2				
01/31/2025	06:31:48	877	6.5	14.58	374.5				
01/31/2025	06:32:18	922	6.5	14.70	377.8				
01/31/2025	06:32:48	940	6.5	14.68	381.1				
01/31/2025	06:33:18	1367	8.4	14.68	384.7				
01/31/2025	06:33:48	1429	8.5	14.67	388.9				
01/31/2025	06:34:18	1456	8.5	14.64	393.1				
01/31/2025	06:34:48	1426	8.5	14.61	397.4				
01/31/2025	06:35:18	1403	8.5	14.58	401.6				
01/31/2025	06:35:48	1442	8.5	14.56	405.8				
01/31/2025	06:36:18	1428	8.5	14.58	410.1				
01/31/2025	06:36:48	1423	8.5	14.61	414.3				
01/31/2025	06:37:18	1412	8.5	14.64	418.5				
01/31/2025	06:37:48	1444	8.4	14.67	422.7				
01/31/2025	06:38:18	1428	8.5	14.68	427.0				
01/31/2025	06:38:48	1441	8.5	14.67	431.2				
01/31/2025	06:39:18	1415	8.5	14.66	435.4				
01/31/2025	06:39:48	1419	8.5	14.64	439.6				
01/31/2025	06:40:18	1423	8.4	14.62	443.9				
01/31/2025	06:40:48	1418	8.5	14.61	448.1				
01/31/2025	06:41:18	1389	8.5	14.62	452.3				
01/31/2025	06:41:48	1388	8.5	14.63	456.6				
01/31/2025	06:42:18	1407	8.5	14.63	460.8				
01/31/2025	06:42:48	1389	8.5	14.67	465.0				
01/31/2025	06:43:18	1372	8.5	14.66	469.2				
01/31/2025	06:44:18	1398	8.5	14.65	477.7				
01/31/2025	06:44:48	1396	8.5	14.63	481.9				
01/31/2025	06:45:18	1410	8.5	14.64	486.2				
01/31/2025	06:45:48	1387	8.4	14.63	490.4				
01/31/2025	06:46:18	1384	8.5	14.64	494.6				
01/31/2025	06:46:48	1406	8.5	14.68	498.8				
01/31/2025	06:47:18	1421	8.4	14.69	503.1				
01/31/2025	06:47:48	1392	8.4	14.66	507.3				
01/31/2025	06:48:18	1398	8.5	14.68	511.5				
01/31/2025	06:48:48	1397	8.5	14.68	515.7				
01/31/2025	06:49:18	1400	8.4	14.69	520.0				
01/31/2025	06:49:48	1388	8.4	14.69	524.2				
01/31/2025	06:50:48	1407	8.5	14.72	532.7				
01/31/2025	06:51:18	1437	8.5	14.71	536.9				
01/31/2025	06:51:48	1436	8.5	14.70	541.1				
01/31/2025	06:52:18	1419	8.5	14.65	545.3				
01/31/2025	06:52:48	1445	8.4	14.75	549.6				
01/31/2025	06:53:18	1437	8.5	14.71	553.8				
01/31/2025	06:53:48	1425	8.4	14.65	558.0				
01/31/2025	06:54:18	792	7.0	14.57	562.2				
01/31/2025	06:54:48	629	5.3	14.68	565.0				

Well		Field		Job Start		Customer		Job Number	
Michael Southworth 10H 10H		Wildcat		Jan/31/2025		Expand Energy		1059713.12.29	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/31/2025	06:55:48	910	6.5	14.58	571.1				
01/31/2025	06:56:18	864	6.5	14.54	574.4				
01/31/2025	06:56:48	851	6.6	14.51	577.7				
01/31/2025	06:57:18	847	6.5	14.51	580.9				
01/31/2025	06:57:48	881	6.5	14.55	584.2				
01/31/2025	06:58:18	887	6.5	14.51	587.5				
01/31/2025	06:58:48	826	6.5	14.52	590.7				
01/31/2025	06:59:18	901	6.5	14.72	594.0				
01/31/2025	06:59:48	859	6.5	14.83	597.2				
01/31/2025	07:00:18	871	6.5	14.85	600.5				
01/31/2025	07:00:48	920	6.5	14.83	603.8				
01/31/2025	07:01:18	521	4.7	14.74	606.8				
01/31/2025	07:01:48	408	4.6	14.68	609.2				
01/31/2025	07:02:18	449	4.6	14.63	611.5				
01/31/2025	07:02:48	406	4.6	14.60	613.8				
01/31/2025	07:03:18	481	4.6	14.60	616.1				
01/31/2025	07:03:48	465	4.6	14.61	618.4				
01/31/2025	07:04:18	437	4.6	14.61	620.7				
01/31/2025	07:04:48	471	4.6	14.63	623.1				
01/31/2025	07:05:18	399	4.6	14.69	625.4				
01/31/2025	07:05:48	2259	4.6	14.64	627.7				
01/31/2025	07:06:18	1536	8.3	14.63	630.6				
01/31/2025	07:06:48	1578	8.4	14.63	634.8				
01/31/2025	07:07:18	1531	8.4	14.61	639.0				
01/31/2025	07:07:48	1536	8.4	14.59	643.2				
01/31/2025	07:08:18	1522	8.4	14.57	647.5				
01/31/2025	07:08:48	1515	8.4	14.56	651.7				
01/31/2025	07:09:18	1506	8.4	14.55	655.9				
01/31/2025	07:09:48	1498	8.4	14.55	660.1				
01/31/2025	07:10:18	1500	8.4	14.57	664.3				
01/31/2025	07:10:48	1493	8.4	14.58	668.6				
01/31/2025	07:11:18	1498	8.4	14.59	672.8				
01/31/2025	07:11:48	1522	8.4	14.58	677.0				
01/31/2025	07:12:18	1518	8.4	14.58	681.2				
01/31/2025	07:12:48	1556	8.4	14.57	685.4				
01/31/2025	07:13:18	1541	8.4	14.56	689.7				
01/31/2025	07:13:48	1523	8.4	14.55	693.9				
01/31/2025	07:14:18	1529	8.4	14.53	698.1				
01/31/2025	07:14:48	1524	8.4	14.53	702.3				
01/31/2025	07:15:18	1527	8.4	14.52	706.5				
01/31/2025	07:15:48	1512	8.5	14.52	710.8				
01/31/2025	07:16:18	1509	8.4	14.50	715.0				
01/31/2025	07:16:48	1504	8.4	14.51	719.2				
01/31/2025	07:17:18	1517	8.5	14.48	723.4				
01/31/2025	07:17:48	1529	8.4	14.51	727.7				
01/31/2025	07:18:18	1544	8.4	14.54	731.9				
01/31/2025	07:18:48	1550	8.4	14.57	736.1				
01/31/2025	07:19:18	1553	8.4	14.57	740.3				
01/31/2025	07:19:48	1544	8.4	14.56	744.6				
01/31/2025	07:20:18	1546	8.5	14.55	748.8				
01/31/2025	07:20:48	1567	8.4	14.64	753.0				
01/31/2025	07:21:18	1585	8.4	14.65	757.2				
01/31/2025	07:21:48	1583	8.4	14.66	761.5				
01/31/2025	07:22:18	1573	8.4	14.64	765.7				

03/13/2026



Well		Field	Job Start	Customer	Job Number	
Michael Southworth 10H 10H		Wildcat	Jan/31/2025	Expand Energy	1059713.12.29	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
01/31/2025	07:23:18	1538	8.4	14.59	774.1	
01/31/2025	07:23:48	1552	8.3	14.56	778.3	
01/31/2025	07:24:18	1547	8.3	14.54	782.5	
01/31/2025	07:24:48	1533	8.4	14.47	786.6	
01/31/2025	07:25:18	1550	8.3	14.51	790.8	
01/31/2025	07:25:48	1549	8.3	14.57	795.0	
01/31/2025	07:26:18	1518	8.3	14.53	799.1	
01/31/2025	07:26:48	1530	8.3	14.46	803.3	
01/31/2025	07:27:18	1531	8.3	14.43	807.5	
01/31/2025	07:27:48	1547	8.3	14.50	811.6	
01/31/2025	07:28:18	1527	8.3	14.42	815.8	
01/31/2025	07:28:48	1520	8.3	14.43	819.9	
01/31/2025	07:29:18	1515	8.3	14.38	824.1	
01/31/2025	07:29:48	1489	8.3	14.43	828.3	
01/31/2025	07:30:18	1510	8.3	14.39	832.4	
01/31/2025	07:30:48	1020	6.6	14.38	836.2	
01/31/2025	07:31:18	939	6.5	14.44	839.5	
01/31/2025	07:31:48	943	6.5	14.50	842.7	
01/31/2025	07:32:18	1014	6.5	14.60	846.0	
01/31/2025	07:32:48	972	6.5	14.60	849.3	
01/31/2025	07:33:18	1003	6.5	14.54	852.5	
01/31/2025	07:33:48	1017	6.5	14.56	855.8	
01/31/2025	07:34:18	978	6.5	14.53	859.1	
01/31/2025	07:34:48	1011	6.5	14.57	862.4	
01/31/2025	07:35:18	1502	8.4	14.53	866.3	
01/31/2025	07:35:48	1511	8.4	14.57	870.5	
01/31/2025	07:36:18	1511	8.4	14.57	874.7	
01/31/2025	07:36:48	1516	8.4	14.59	878.9	
01/31/2025	07:37:18	1524	8.4	14.63	883.1	
01/31/2025	07:37:48	1552	8.4	14.65	887.4	
01/31/2025	07:38:18	1553	8.4	14.65	891.6	
01/31/2025	07:38:48	1564	8.4	14.63	895.8	
01/31/2025	07:39:18	1558	8.4	14.61	900.0	
01/31/2025	07:39:48	1546	8.4	14.60	904.3	
01/31/2025	07:40:18	1555	8.4	14.59	908.5	
01/31/2025	07:40:48	1556	8.4	14.58	912.7	
01/31/2025	07:41:48	1567	8.4	14.58	921.1	
01/31/2025	07:42:18	1556	8.4	14.61	925.3	
01/31/2025	07:42:48	1553	8.4	14.54	929.6	
01/31/2025	07:43:18	1554	8.4	14.58	933.8	
01/31/2025	07:43:48	1566	8.4	14.62	938.0	
01/31/2025	07:44:18	1618	8.4	14.84	942.2	
01/31/2025	07:44:48	1650	8.4	15.01	946.4	
01/31/2025	07:45:18	1723	8.3	15.29	950.6	
01/31/2025	07:45:48	1555	8.4	14.59	954.8	
01/31/2025	07:46:18	1437	8.3	14.24	958.9	
01/31/2025	07:46:48	1502	8.3	14.44	963.1	
01/31/2025	07:47:18	1509	8.3	14.45	967.2	
01/31/2025	07:48:18	1556	8.3	14.61	975.6	
01/31/2025	07:48:48	1168	8.2	14.46	979.7	
01/31/2025	07:49:18	735	5.3	14.54	982.7	
01/31/2025	07:49:48	87	2.1	14.54	984.5	
01/31/2025	07:50:18	81	2.1	14.54	985.5	
01/31/2025	07:50:48	86	2.1	14.53	986.6	

Well		Field	Job Start	Customer	Job Number	
Michael Southworth 10H 10H		Wildcat	Jan/31/2025	Expand Energy	1059713.12.29	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
01/31/2025	07:51:48	976	6.3	14.61	989.3	
01/31/2025	07:52:18	1039	6.5	14.62	992.5	
01/31/2025	07:52:48	1539	8.4	14.63	996.4	
01/31/2025	07:53:18	1529	8.4	14.63	1000.6	
01/31/2025	07:53:48	1577	8.4	14.60	1004.8	
01/31/2025	07:54:18	1578	8.4	14.57	1009.0	
01/31/2025	07:54:48	1598	8.4	14.54	1013.3	
01/31/2025	07:55:18	1579	8.4	14.53	1017.5	
01/31/2025	07:55:48	1594	8.4	14.55	1021.7	
01/31/2025	07:56:18	1616	8.4	14.58	1025.9	
01/31/2025	07:56:48	1628	8.4	14.60	1030.1	
01/31/2025	07:57:18	1622	8.4	14.62	1034.4	
01/31/2025	07:57:48	1648	8.4	14.64	1038.6	
01/31/2025	07:58:18	1645	8.4	14.67	1042.8	
01/31/2025	07:58:48	1650	8.4	14.66	1047.0	
01/31/2025	07:59:18	1681	8.4	14.64	1051.2	
01/31/2025	07:59:48	1680	8.4	14.67	1055.4	
01/31/2025	08:00:18	1728	8.4	14.70	1059.7	
01/31/2025	08:00:48	1699	8.4	14.71	1063.9	
01/31/2025	08:01:18	1716	8.4	14.70	1068.1	
01/31/2025	08:01:48	1707	8.4	14.63	1072.3	
01/31/2025	08:02:18	1704	8.4	14.60	1076.5	
01/31/2025	08:02:48	1702	8.4	14.59	1080.8	
01/31/2025	08:03:18	1293	7.6	14.48	1085.0	
01/31/2025	08:03:48	632	5.3	14.45	1087.9	
01/31/2025	08:04:18	154	2.2	14.44	1089.5	
01/31/2025	08:04:48	1035	6.2	14.44	1091.1	
01/31/2025	08:05:18	1028	6.6	14.13	1094.4	
01/31/2025	08:05:48	1053	6.7	13.81	1097.7	
01/31/2025	08:06:00	45	3.3	10.99	1098.9	wash lines
01/31/2025	08:06:18	22	0.1	14.49	1099.1	
01/31/2025	08:06:48	18	0.0	13.25	1099.1	
01/31/2025	08:07:18	17	0.0	13.20	1099.1	
01/31/2025	08:07:48	16	0.0	10.54	1099.1	
01/31/2025	08:08:18	23	0.3	9.13	1099.3	
01/31/2025	08:08:48	90	2.5	9.13	1100.1	
01/31/2025	08:09:18	243	4.6	9.71	1101.9	
01/31/2025	08:09:48	228	4.7	8.83	1104.2	
01/31/2025	08:10:18	300	6.6	8.51	1107.0	
01/31/2025	08:10:48	326	6.6	8.51	1110.3	
01/31/2025	08:11:18	280	6.6	8.45	1113.6	
01/31/2025	08:11:48	90	10.5	3.70	1117.0	
01/31/2025	08:12:18	82	3.4	1.27	1119.7	
01/31/2025	08:12:48	79	4.5	5.42	1121.5	
01/31/2025	08:13:18	293	5.5	7.68	1124.7	
01/31/2025	08:13:48	294	6.6	8.67	1127.8	
01/31/2025	08:14:18	254	6.7	8.29	1131.2	
01/31/2025	08:14:48	302	6.4	8.33	1134.4	
01/31/2025	08:15:18	77	5.4	7.61	1137.8	
01/31/2025	08:15:48	174	4.7	8.34	1140.4	
01/31/2025	08:16:00	176	4.7	8.35	1141.3	release top plug
01/31/2025	08:16:18	114	4.6	8.77	1142.7	
01/31/2025	08:16:48	74	0.0	8.25	1143.5	
01/31/2025	08:17:18	373	0.0	8.35	1143.5	

Well		Field		Job Start		Customer		Job Number	
Michael Southworth 10H 10H		Wildcat		Jan/31/2025		Expand Energy		1059713.12.29	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/31/2025	08:18:18	22	0.0	8.32	1143.5				
01/31/2025	08:18:48	17	0.0	8.32	1143.5				
01/31/2025	08:19:00	16	0.0	8.33	1143.5	displace 475bbl treated water			
01/31/2025	08:19:18	32	0.0	8.33	1143.5				
01/31/2025	08:19:48	14	0.0	8.30	1143.5				
01/31/2025	08:20:18	49	1.3	8.33	1146.1				
01/31/2025	08:20:48	24	0.0	8.33	1146.2				
01/31/2025	08:21:18	167	4.2	8.33	1147.3				
01/31/2025	08:21:48	29	0.5	8.33	1148.1				
01/31/2025	08:22:18	175	4.2	8.33	1148.9				
01/31/2025	08:22:48	138	4.7	8.34	1151.2				
01/31/2025	08:23:18	492	3.4	8.33	1153.5				
01/31/2025	08:23:48	579	1.3	8.33	1154.4				
01/31/2025	08:24:18	1366	4.8	8.33	1155.2				
01/31/2025	08:24:48	1940	7.7	8.33	1158.4				
01/31/2025	08:25:18	2378	11.0	8.33	1163.8				
01/31/2025	08:25:48	2282	10.3	8.33	1169.2				
01/31/2025	08:26:18	2346	10.4	8.33	1174.3				
01/31/2025	08:26:48	2419	10.4	8.34	1179.5				
01/31/2025	08:27:18	2497	10.4	8.33	1184.7				
01/31/2025	08:27:48	2579	10.4	8.33	1189.9				
01/31/2025	08:28:18	2646	10.4	8.33	1195.1				
01/31/2025	08:28:48	2739	10.4	8.33	1200.3				
01/31/2025	08:29:18	2839	10.4	8.34	1205.5				
01/31/2025	08:29:48	2883	10.3	8.34	1210.7				
01/31/2025	08:30:18	2978	10.3	8.34	1215.8				
01/31/2025	08:30:48	3067	10.3	8.34	1221.0				
01/31/2025	08:31:18	3121	10.3	8.34	1226.2				
01/31/2025	08:31:48	3265	10.4	8.34	1231.4				
01/31/2025	08:32:18	3345	10.4	8.34	1236.6				
01/31/2025	08:32:48	3380	10.4	8.34	1241.8				
01/31/2025	08:33:18	3521	10.4	8.34	1247.0				
01/31/2025	08:33:48	3491	10.4	8.34	1252.2				
01/31/2025	08:34:18	3653	10.4	8.34	1257.4				
01/31/2025	08:34:48	3787	10.4	8.34	1262.6				
01/31/2025	08:35:18	3722	10.4	8.34	1267.8				
01/31/2025	08:35:48	3789	10.4	8.33	1273.0				
01/31/2025	08:36:18	3921	10.4	8.34	1278.2				
01/31/2025	08:36:48	3947	10.4	8.34	1283.3				
01/31/2025	08:37:18	4073	10.4	8.33	1288.5				
01/31/2025	08:37:48	4120	10.3	8.33	1293.7				
01/31/2025	08:38:18	4074	10.4	8.33	1298.9				
01/31/2025	08:39:18	4235	10.4	8.34	1309.2				
01/31/2025	08:39:48	4193	10.3	8.34	1314.4				
01/31/2025	08:40:18	4205	10.4	8.33	1319.6				
01/31/2025	08:40:48	4094	10.3	8.33	1324.8				
01/31/2025	08:41:18	4011	9.8	8.33	1329.7				
01/31/2025	08:41:48	3994	9.9	8.33	1334.6				
01/31/2025	08:42:18	3969	9.9	8.33	1339.6				
01/31/2025	08:42:48	4077	10.0	8.33	1344.5				
01/31/2025	08:43:18	4062	10.1	8.33	1349.5				
01/31/2025	08:43:48	4049	10.0	8.33	1354.5				
01/31/2025	08:44:18	4063	10.0	8.33	1359.6				
01/31/2025	08:44:48	4043	10.0	8.33	1364.6				

Well		Field		Job Start		Customer		Job Number	
Michael Southworth 10H 10H		Wildcat		Jan/31/2025		Expand Energy		1059713.12.29	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/31/2025	08:45:48		4025	9.8	8.33	1374.5			
01/31/2025	08:46:18		3972	9.8	8.33	1379.4			
01/31/2025	08:46:48		3977	9.8	8.33	1384.3			
01/31/2025	08:47:18		3996	9.8	8.33	1389.2			
01/31/2025	08:47:48		3982	9.8	8.33	1394.2			
01/31/2025	08:48:18		4010	9.8	8.33	1399.1			
01/31/2025	08:48:48		4003	9.9	8.33	1404.0			
01/31/2025	08:49:18		3990	9.8	8.33	1408.9			
01/31/2025	08:49:48		3993	9.9	8.33	1413.8			
01/31/2025	08:50:18		3993	9.8	8.33	1418.8			
01/31/2025	08:50:48		3989	9.8	8.33	1423.7			
01/31/2025	08:51:18		3989	9.8	8.33	1428.6			
01/31/2025	08:51:48		3989	9.8	8.33	1433.5			
01/31/2025	08:52:18		4008	9.8	8.33	1438.4			
01/31/2025	08:52:48		3998	9.8	8.33	1443.4			
01/31/2025	08:53:18		4010	9.9	8.33	1448.3			
01/31/2025	08:53:48		3995	9.8	8.33	1453.2			
01/31/2025	08:54:18		3990	9.9	8.33	1458.1			
01/31/2025	08:54:48		4004	9.8	8.33	1463.0			
01/31/2025	08:55:18		4005	9.8	8.33	1468.0			
01/31/2025	08:55:48		4024	9.8	8.33	1472.9			
01/31/2025	08:56:18		4027	9.8	8.33	1477.8			
01/31/2025	08:56:48		3997	9.8	8.33	1482.7			
01/31/2025	08:57:18		3545	7.5	8.33	1487.5			
01/31/2025	08:57:48		3699	8.9	8.33	1491.3			
01/31/2025	08:58:18		3747	8.9	8.33	1495.7			
01/31/2025	08:58:48		3773	8.9	8.33	1500.2			
01/31/2025	08:59:18		3787	8.9	8.33	1504.7			
01/31/2025	08:59:48		3753	8.9	8.33	1509.1			
01/31/2025	09:00:18		3820	8.9	8.33	1513.6			
01/31/2025	09:00:48		3794	8.9	8.33	1518.1			
01/31/2025	09:01:18		3766	8.9	8.33	1522.5			
01/31/2025	09:01:48		3790	8.9	8.33	1527.0			
01/31/2025	09:02:18		3754	8.9	8.33	1531.5			
01/31/2025	09:02:48		3785	8.9	8.33	1535.9			
01/31/2025	09:03:18		3779	8.9	8.33	1540.4			
01/31/2025	09:03:48		3787	8.9	8.33	1544.9			
01/31/2025	09:04:18		3768	8.9	8.33	1549.3			
01/31/2025	09:04:48		3753	8.9	8.33	1553.8			
01/31/2025	09:05:18		3757	8.9	8.33	1558.3			
01/31/2025	09:05:48		3779	9.0	8.33	1562.7			
01/31/2025	09:06:18		3780	8.9	8.33	1567.2			
01/31/2025	09:06:48		3725	8.9	8.33	1571.7			
01/31/2025	09:07:18		3763	8.9	8.33	1576.1			
01/31/2025	09:07:48		3789	8.9	8.33	1580.6			
01/31/2025	09:08:18		3768	8.9	8.33	1585.0			
01/31/2025	09:08:48		3751	8.9	8.33	1589.5			
01/31/2025	09:09:18		3776	8.9	8.33	1594.0			
01/31/2025	09:09:48		3716	8.9	8.33	1598.5			
01/31/2025	09:10:18		3720	8.9	8.33	1602.9			
01/31/2025	09:10:48		3748	8.9	8.33	1607.4			
01/31/2025	09:11:18		3749	8.9	8.33	1611.9			
01/31/2025	09:11:48		3295	6.8	8.33	1616.3			
01/31/2025	09:12:18		3092	5.9	8.33	1618.8			

Well		Field		Job Start		Customer		Job Number	
Michael Southworth 10H 10H		Wildcat		Jan/31/2025		Expand Energy		1059713.12.29	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/31/2025	09:13:18	3186	7.7	8.33	1626.7				
01/31/2025	09:13:48	2722	3.3	8.33	1628.8				
01/31/2025	09:14:18	2713	3.3	8.33	1630.4				
01/31/2025	09:14:48	2701	3.3	8.33	1632.1				
01/31/2025	09:15:18	2740	3.3	8.33	1633.7				
01/31/2025	09:15:48	2713	3.3	8.33	1635.4				
01/31/2025	09:16:00	3021	3.3	8.33	1636.1	45bbl cement to surface			
01/31/2025	09:16:18	3456	1.2	8.33	1636.9				
01/31/2025	09:16:48	3427	0.0	8.33	1637.0				
01/31/2025	09:17:00	3441	0.0	8.33	1637.0	land plug @ 3500psi			
01/31/2025	09:17:18	3446	0.0	8.33	1637.0				
01/31/2025	09:17:48	3495	0.0	8.33	1637.0				
01/31/2025	09:18:18	3445	0.0	8.33	1637.0				
01/31/2025	09:18:48	3458	0.0	8.33	1637.0				
01/31/2025	09:19:18	3472	0.0	8.33	1637.0				
01/31/2025	09:19:48	3459	0.0	8.33	1637.0				
01/31/2025	09:20:18	3481	0.0	8.33	1637.0				
01/31/2025	09:20:48	3467	0.0	8.33	1637.0				
01/31/2025	09:21:18	3468	0.0	8.33	1637.0				
01/31/2025	09:21:48	2717	0.0	8.33	1637.0				
01/31/2025	09:22:00	1990	0.0	8.33	1637.0	5.5bbl back floats hold			
01/31/2025	09:22:18	527	0.0	8.33	1637.0				
01/31/2025	09:22:48	9	0.0	8.33	1637.0				
01/31/2025	09:23:18	9	0.0	8.33	1637.0				
01/31/2025	09:23:48	9	0.0	8.33	1637.0				
01/31/2025	09:24:18	8	0.0	8.33	1637.0				
01/31/2025	09:24:48	7	0.0	8.33	1637.0				
01/31/2025	09:25:18	5	0.0	8.33	1637.0				
01/31/2025	09:25:48	5	0.0	8.34	1637.0				
01/31/2025	09:26:18	5	0.0	8.34	1637.0				
01/31/2025	09:26:48	12	0.0	8.33	1637.0				
01/31/2025	09:27:18	12	0.0	8.34	1637.0				
01/31/2025	09:27:48	12	0.0	8.34	1637.0				
01/31/2025	09:28:18	11	0.0	8.33	1637.0				
01/31/2025	09:28:48	34	0.0	8.34	1637.0				
01/31/2025	09:29:18	37	0.0	8.34	1637.0				
01/31/2025	09:30:00	43	1.2	8.35	1637.1	wash rig lines			
01/31/2025	09:30:18	228	4.7	8.33	1638.1				
01/31/2025	09:30:48	211	6.6	8.33	1641.2				
01/31/2025	09:31:18	330	8.5	8.33	1645.1				
01/31/2025	09:31:48	327	8.5	8.33	1649.3				
01/31/2025	09:32:18	351	7.0	8.51	1653.1				
01/31/2025	09:32:48	343	8.5	8.33	1657.3				
01/31/2025	09:33:18	314	8.5	8.33	1661.6				
01/31/2025	09:33:48	318	8.5	8.33	1665.8				
01/31/2025	09:34:18	306	8.5	8.33	1670.1				
01/31/2025	09:34:48	315	8.5	8.33	1674.3				
01/31/2025	09:35:18	306	8.5	8.33	1678.6				
01/31/2025	09:35:48	316	8.5	8.33	1682.9				
01/31/2025	09:36:48	308	8.5	8.33	1691.4				
01/31/2025	09:37:18	303	8.5	8.34	1695.6				
01/31/2025	09:37:48	305	8.5	8.33	1699.9				
01/31/2025	09:38:18	303	8.6	8.33	1704.2				
01/31/2025	09:38:48	301	8.6	8.33	1708.5				

Well		Field		Job Start	Customer	Job Number
Michael Southworth 10H 10H		Wildcat		Jan/31/2025	Expand Energy	1059713.12.29
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
01/31/2025	09:39:48	306	8.5	8.33	1717.0	
01/31/2025	09:40:18	303	8.5	8.33	1721.2	
01/31/2025	09:40:48	306	8.5	8.33	1725.5	
01/31/2025	09:41:18	306	8.5	8.33	1729.8	
01/31/2025	09:41:48	312	8.5	8.33	1734.0	
01/31/2025	09:42:18	311	8.5	8.33	1738.3	
01/31/2025	09:42:48	14	0.0	8.33	1740.3	
01/31/2025	09:43:18	12	0.0	8.33	1740.3	
01/31/2025	09:43:48	11	0.0	8.33	1740.3	
01/31/2025	09:44:18	10	0.0	8.33	1740.3	
01/31/2025	09:44:48	10	0.0	8.33	1740.3	
01/31/2025	09:45:18	10	0.0	8.33	1740.3	
01/31/2025	09:45:48	11	0.0	8.33	1740.3	
01/31/2025	09:46:18	11	0.0	8.33	1740.3	
01/31/2025	09:46:48	11	0.0	8.33	1740.3	
01/31/2025	09:47:18	11	0.0	8.33	1740.3	
01/31/2025	09:47:48	11	0.0	8.33	1740.3	
01/31/2025	09:48:18	314	3.2	8.33	1740.7	
01/31/2025	09:48:48	353	0.2	8.33	1742.0	
01/31/2025	09:49:18	710	3.6	8.33	1742.9	
01/31/2025	09:49:48	826	5.1	8.33	1745.0	
01/31/2025	09:50:18	866	5.3	8.33	1747.7	
01/31/2025	09:50:48	690	2.3	8.33	1749.8	
01/31/2025	09:51:18	766	3.0	8.33	1751.1	
01/31/2025	09:51:48	789	3.1	8.33	1752.6	
01/31/2025	09:52:18	615	0.1	8.33	1753.7	
01/31/2025	09:52:48	594	0.0	8.33	1753.7	
01/31/2025	09:53:18	591	0.0	8.33	1753.7	
01/31/2025	09:53:48	586	0.0	8.33	1753.7	
01/31/2025	09:54:18	584	0.0	8.33	1753.7	
01/31/2025	09:54:48	581	0.0	8.33	1753.7	
01/31/2025	09:55:18	553	0.0	8.33	1753.7	
01/31/2025	09:55:48	555	0.0	8.33	1753.7	
01/31/2025	09:56:18	586	0.0	8.33	1753.7	
01/31/2025	09:56:48	742	2.1	8.33	1754.3	
01/31/2025	09:57:18	859	3.1	8.33	1755.6	
01/31/2025	09:57:48	674	0.5	8.33	1756.9	
01/31/2025	09:58:18	671	0.0	8.33	1756.9	
01/31/2025	09:58:48	577	0.0	8.33	1756.9	
01/31/2025	09:59:18	82	0.0	8.33	1756.9	
01/31/2025	09:59:48	24	0.0	8.33	1756.9	
01/31/2025	10:00:18	15	0.0	8.33	1756.9	
01/31/2025	10:00:48	12	0.0	8.33	1756.9	
01/31/2025	10:01:18	11	0.0	8.33	1756.9	
01/31/2025	10:01:48	73	0.0	8.33	1756.9	
01/31/2025	10:02:18	41	0.0	8.33	1756.9	
01/31/2025	10:02:48	6	0.0	8.33	1756.9	
01/31/2025	10:03:18	6	0.0	8.33	1756.9	
01/31/2025	10:03:48	7	0.0	8.33	1756.9	
01/31/2025	10:04:18	7	0.0	8.33	1756.9	
01/31/2025	10:04:48	42	2.2	8.33	1757.2	
01/31/2025	10:05:18	70	3.7	8.33	1758.9	
01/31/2025	10:05:48	110	4.8	8.33	1761.0	
01/31/2025	10:06:18	112	4.7	8.33	1763.4	

Well		Field		Job Start		Customer		Job Number	
Michael Southworth 10H 10H		Wildcat		Jan/31/2025		Expand Energy		1059713.12.29	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/31/2025	10:07:00	110	4.8	8.32	1766.7	end pumping @ 10:30			
01/31/2025	10:07:18	106	4.8	8.33	1768.2				
01/31/2025	10:07:48	109	4.8	8.33	1770.6				
01/31/2025	10:08:18	108	4.8	8.33	1773.0				
01/31/2025	10:08:48	102	4.9	8.73	1775.3				
01/31/2025	10:09:00	27	2.0	3.93	1776.3	end job @ 12:00			
01/31/2025	10:09:18	19	0.0	0.04	1776.3				

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
6.3			12.4	932.0	0.0	135.0		
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
8061	0	1108	3500			bbl	lb/gal	
Avg. N2 Percent %	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume	45.0 bbl	
	932.0 bbl	475.0 bbl	72 degF	Washed Thru Perfs	<input type="checkbox"/>	To	ft	
Customer or Authorized Representative	Schlumberger Supervisor Danny Cover			Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>	
				-		-		

Refresh		MICHAEL SOUTHWORTH MSH 10H - Original Hole																	AFE			
		Operator EXPAND OPERATING LLC																	Frac Company			
		Division SOUTHWEST APPALACHIA																	Latitude 40.012643			
		Pad EXPAND OPERATING LLC																	Longitude -80.615021			
Frac String :		S.Sin 20H P-110 HP Production Casing Set at 21,463 ft																	CLAT: 14,638 ft		Stages/Day: 0.75	
Stage :		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19																				
Date :		7/26/2025 7/26/2025 7/27/2025 7/27/2025 7/28/2025 7/28/2025 7/29/2025 7/29/2025 7/30/2025 7/30/2025 7/31/2025 7/31/2025 7/31/2025 8/1/2025 8/2/2025 8/2/2025 8/3/2025 8/3/2025 8/4/2025																				
Top Perf (ft) :		21,278 21,064 20,854 20,643 20,432 20,221 20,011 19,800 19,589 19,379 19,168 18,957 18,746 18,536 18,325 18,114 17,904 17,693 17,482																				
Btm Perf (ft) :		21,373 21,242 21,031 20,821 20,610 20,399 20,188 19,978 19,767 19,556 19,345 19,135 18,924 18,713 18,503 18,292 18,081 17,870 17,660																				
Number of Perf Holes :		36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36																				
Perf Hole ID (in) :		0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41																				
TVD (ft) :		6,591 6,590 6,588 6,587 6,586 6,584 6,582 6,580 6,577 6,575 6,572 6,569 6,567 6,566 6,565 6,563 6,561 6,558																				
Capacity to Top Perf (bbls) :		472 468 463 458 454 449 444 439 435 430 425 421 416 411 407 402 397 393 388																				
Capacity to Bottom Perf (bbls) :		474 471 467 462 457 453 448 443 439 434 429 425 420 415 411 406 401 397 392																				
Survey (inclination) :																						
Mid-Perf (MD) :		21,326 21,153 20,943 20,732 20,521 20,310 20,100 19,889 19,678 19,468 19,257 19,046 18,835 18,625 18,414 18,203 17,993 17,782 17,571																				
Pump Down Start Time :		7/26/25 4:17 7/26/25 21:05 7/27/25 10:01 7/27/25 22:07 7/28/25 13:05 7/28/25 21:00 7/29/25 16:04 7/30/25 23:06 7/30/25 6:35 7/31/25 0:09 7/31/25 5:26 7/31/25 15:50 8/1/25 1:27 8/1/25 13:46 8/2/25 7:45 8/2/25 2:50 8/3/25 15:28 8/4/25 0:04																				
Pump Down Stop Time :		7/26/25 4:55 7/27/25 7:10 7/27/25 10:43 7/28/25 8:25 7/28/25 13:40 7/28/25 21:27 7/29/25 16:32 7/30/25 23:37 7/30/25 7:01 7/31/25 0:47 7/31/25 5:53 7/31/25 16:17 8/1/25 1:57 8/1/25 14:13 8/2/25 8:12 8/2/25 3:21 8/3/25 15:53 8/4/25 0:29																				
Pumpdown Total Time :		0.63 10.08 0.70 10.30 0.58 0.45 0.47 0.52 0.43 0.63 0.45 0.45 0.50 0.45 0.45 0.52 0.42 0.42																				
Stage Start Time :		7/26/25 1:31 7/26/25 4:55 7/26/25 21:32 7/27/25 10:43 7/27/25 22:38 7/28/25 13:40 7/28/25 21:27 7/29/25 16:32 7/30/25 4:35 7/30/25 7:01 7/31/25 0:47 7/31/25 5:53 7/31/25 16:17 8/1/25 1:57 8/1/25 14:13 8/2/25 8:12 8/2/25 3:21 8/3/25 15:53 8/4/25 0:29																				
Stage Stop Time :		7/26/25 3:49 7/26/25 16:57 7/27/25 9:58 7/27/25 21:49 7/28/25 11:45 7/28/25 20:36 7/29/25 10:20 7/29/25 16:14 7/30/25 23:43 7/30/25 5:19 7/31/25 15:41 8/1/25 1:32 8/1/25 13:35 8/2/25 7:11 8/2/25 2:35 8/3/25 15:31 8/3/25 23:56 8/4/25 8:35																				
Total Stage Time : (hrs) :		2.30 12.03 12.43 11.10 13.12 6.93 12.88 3.90 1.65 16.70 4.53 9.80 9.08 11.63 16.97 18.38 12.00 8.05 8.10																				
IWHP (psi) :		1,476 2,534 2,484 2,548 2,514 2,200 2,406 2,900 2,650 3,138 2,725 2,799 3,198 2,543 2,771 2,436 2,629 2,607 2,541																				
15 % HCl Acid (bbls) :		33 33 67 33 57 24 33 33 33 100 33 33 33 33 33 33 33 33 33																				
Number of Perf Clusters :		3 6 6 6 6 6 6 6 6 12 6 6 6 6 6 6 6 6 6																				
Perf Spacing (ft) :		47 35 35 35 35 35 35 35 35 16 35 35 35 35 35 35 35 35 35																				
Pump down (bbls) :		115 267 104 309 96 101 93 106 286 112 90 89 93 90 244 97 81 83																				
Frac Water (bbls) :		8,273 8,065 12,305 7,393 10,600 7,399 7,428 7,346 7,738 11,369 7,776 7,566 7,437 7,665 7,426 7,319 7,649 7,472 7,631																				
Load to Recover (Total Vol Pumped) (bbls) :		8,273 8,180 12,572 7,497 10,909 7,495 7,529 7,439 7,844 11,655 7,888 7,656 7,526 7,758 7,516 7,563 7,746 7,553 7,714																				
Slurry Volume (bbls) :		8,489 8,611 12,973 7,887 11,316 7,899 7,937 7,846 8,278 12,082 8,295 8,064 7,926 8,174 7,915 7,575 8,158 7,952 8,123																				
100 Mesh (lbs) :		86,240 154,860 151,350 156,040 156,690 154,870 152,710 149,020 151,140 153,540 152,480 156,080 153,180 155,620 156,810 6,152 154,760 150,780 155,570																				
20/40, 30/50, 30/70, & 40/70 (lbs) :		110,980 223,490 220,860 219,430 223,810 223,200 219,700 224,530 223,300 221,320 214,040 220,200 216,820 225,260 219,320 0 226,060 222,480 223,430																				
Total Prop from Stem Int Prop Table (lbs) :		197,220 378,350 372,210 375,470 380,500 378,070 372,410 373,550 374,440 374,860 366,520 376,280 370,000 380,880 376,130 6,152 380,820 373,260 379,000																				
Total Prop from Stem Stage Table (lbs) :		197,220 378,350 372,210 375,470 380,500 378,070 372,410 373,550 374,440 374,860 366,520 376,280 370,000 380,880 376,130 6,152 380,820 373,260 379,000																				
Avg Rate (bbls/min) :		82 83 84 85 88 94 91 93 90 85 97 96 98 98 97 74 99 95 89																				
Avg Pressure (psi) :		9,773 9,851 9,597 9,871 9,118 8,739 9,210 8,731 9,113 9,008 9,176 8,990 8,974 9,110 9,256 9,496 8,498 9,095 8,744																				
Max Rate (bpm) :		95 88 96 93 100 100 97 98 94 100 100 100 100 100 79 100 99 95																				
Max Pressure (psi) :		9,983 10,373 10,618 10,361 9,855 9,302 9,738 9,297 9,431 9,727 10,520 9,494 9,462 9,638 9,641 10,620 8,951 9,406 9,270																				
Break Pressure (psi) :		5,804 7,074 6,373 6,759 6,923 3,854 6,201 5,544 6,821 6,672 6,378 6,448 6,601 6,405 6,342 6,181 5,638 6,642 6,328																				
ISIP (psi) :		3,877 3,986 3,898 3,679 4,232 4,682 4,056 4,220 4,161 4,678 4,504 4,824 4,976 4,872 4,856 5,604 4,951 4,789 4,364																				
FG (psi/ft) :		1.03 1.05 1.03 1.00 1.08 1.25 1.06 1.08 1.07 1.15 1.13 1.18 1.20 1.18 1.18 1.30 1.20 1.17 1.11																				
Blockde (gal) :		32 45 65 27 47 42 43 42 29 61 43 43 42 43 32 43 43 44																				
Corrosion Inhibitor (lbs) :		3 3 6 3 5 2 3 3 3 8 3 3 3 3 3 11 3 3 3																				
Friction Reducer (gal) :		8,602 8,506 11,631 6,598 7,236 3,139 7,861 7,189 7,260 9,315 7,748 7,690 6,878 6,692 3,818 6,576 5,085 5,770 7,158																				
HCL 15% (gal) :		1,400 1,400 2,800 1,400 2,400 1,000 1,400 1,400 1,400 4,200 1,400 1,400 1,400 1,400 1,400 5,600 1,400 1,400 1,400																				
Scale Inhibitor (gal) :		48 29 43 41 32 28 28 28 44 41 28 28 28 29 28 21 29 28 28																				
Breaker :																						
Average Density (SG) :																						
Average of pH :																						
Average of Conductivity :																						
Average of Calcium :																						
Average of Magnesium :																						
Average of Chlorides :																						
Average of Iron :																						
Average of Temp pH :																						
Average of Sulfide :																						
Fluid Density (lb/gal) :																						
Frac Pumpdown :																						
HCl 15% :																						
HCl 7.5% :																						
Difference :																						
Frac PD :																						
HCl :																						







Refresh	Wellbore Name												
													Operator
													Division
													Pad
Frac String :													
Stage :	60	61	62	63	64	65	66	67	68	69	70	Total/Avg	
Date :	8/18/2025	8/18/2025	8/19/2025	8/20/2025	8/20/2025	8/20/2025	8/21/2025	8/21/2025	8/21/2025	8/21/2025	8/22/2025		
Top Perf (ft) :	8,842	8,632	8,421	8,210	7,999	7,789	7,578	7,367	7,153	6,946	6,735	6,735	
Btm Perf (ft) :	9,020	8,809	8,599	8,388	8,177	7,966	7,756	7,545	7,332	7,123	6,913	21,373	
Number of Perf Holes :	36	36	36	36	36	36	36	36	36	36	36	2592	
Perf Hole ID (in) :	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41		
TVD (ft) :	6,447	6,443	6,438	6,434	6,428	6,424	6,422	6,423	6,425	6,421	6,403	6,511	
Capacity to Top Perf (bbls) :	196	192	187	182	178	173	168	164	159	154	149		
Capacity to Bottom Perf (bbls) :	200	196	191	186	181	177	172	167	163	158	153		
Survey (Inclination) :													
Mid-Perf (MD) :	8,931	8,721	8,510	8,299	8,088	7,878	7,667	7,456	7,243	7,035	6,824		
Pump Down Start Time :	8/18/25 12:58	8/18/25 20:50	8/19/25 4:48	8/19/25 19:39	8/20/25 8:06	8/20/25 16:29	8/20/25 23:38	8/21/25 5:26	8/21/25 10:53	8/21/25 18:26	8/22/25 0:48	8/22/25 13:05	
Pump Down Stop Time :	8/18/25 13:30	8/18/25 20:59	8/19/25 5:01	8/19/25 19:47	8/20/25 8:15	8/20/25 16:37	8/20/25 23:47	8/21/25 5:34	8/21/25 11:04	8/21/25 18:34	8/22/25 0:56	8/22/25 0:56	
Pumpdown Total Time :	0:53	0:15	0:22	0:13	0:15	0:13	0:15	0:13	0:18	0:13	0:13	0:61	
Stage Start Time :	8/18/25 13:30	8/18/25 3:18	8/19/25 5:01	8/19/25 19:47	8/20/25 8:15	8/20/25 16:37	8/20/25 23:47	8/21/25 5:34	8/21/25 11:04	8/21/25 18:34	8/22/25 0:56	8/22/25 13:40	
Stage Stop Time :	8/18/25 20:41	8/18/25 4:39	8/19/25 19:31	8/20/25 7:59	8/20/25 16:18	8/20/25 23:37	8/21/25 4:26	8/21/25 10:45	8/21/25 18:15	8/22/25 0:37	8/22/25 7:18	8/22/25 7:18	
Total Stage time : (hrs) :	7.18	1.35	14.50	12.20	8.05	6.83	4.65	5.18	7.18	6.05	6.37	8.42	
IWHP (psi) :	2,721	2,494	2,744	2,826	5,450	2,328	2,789	2,892	2,481	2,580	2,393	2,689	
15 % HCl Acid (bbls) :	24	24	33	24	12	12	12	12	12	12	12	2,350	
Number of Perf Clusters :	6	6	6	6	6	6	6	6	6	6	6	429	
Perf Spacing (ft) :	35	35	35	35	35	35	35	35	35	35	35	35	
Pump down (bbls) :	38	35	34	31	36	33	32	30	31	31	29	5,176	
Frac Water (bbls) :	7,075	6,913	7,056	6,834	6,889	6,743	7,144	6,046	6,803	6,733	7,052	521,265	
Load to Recover (Total Vol Pumped) (bbls) :	7,113	6,948	7,090	6,865	6,925	6,776	7,176	6,076	6,834	6,764	7,081	526,441	
Slurry Volume (bbls) :	7,530	7,359	7,499	7,274	7,337	7,176	7,583	6,431	7,242	7,165	7,479	554,422	
100 Mesh (lbs) :	156,390	157,830	153,870	156,100	154,040	157,310	152,900	157,150	155,650	155,060	107,360	10,504,452	
20/40, 30/50, 30/70, & 40/70 (lbs) :	223,040	227,380	222,470	215,520	223,740	219,380	220,740	175,180	223,760	219,820	264,300	15,140,858	
Total Prop from Stim Int Prop Table (lbs) :	379,430	385,210	376,340	371,620	377,780	376,690	373,640	332,330	379,410	374,880	371,660	25,645,310	
Total Prop from StimStageTable (lbs) :	379,430	385,210	376,340	371,620	377,780	376,690	373,640	332,330	379,410	374,880	371,660	25,645,310	
Avg Rate (bbls/min) :	98	97	96	96	96	96	97	96	96	95	87	95	
Avg Pressure (psi) :	7,458	7,313	7,595	7,255	7,551	7,166	7,591	7,217	7,384	6,605	6,834	8,243	
Max Rate (bpm) :	100	100	100	100	100	100	100	100	100	100	92	100	
Max Pressure (psi) :	7,788	7,982	8,338	7,685	8,555	7,472	8,414	7,613	7,919	7,053	7,706	10,620	
Break Pressure (psi) :	6,511	6,733	6,631	6,483	6,302	6,637	6,448	6,425	6,276	6,051	6,853	6,173	
ISIP (psi) :	4,350	3,912	4,098	4,167	4,383	4,112	3,655	4,155	4,330	3,956	3,899	4,508	
FG (psi/ft) :	1.10	1.04	1.06	1.07	1.11	1.07	1.00	1.07	1.10	1.04	1.03	1.13	
Blockde (gal) :	28	41	42	27	28	38	42	24	27	40	28	2,712	
Corrosion Inhibitor (lbs) :	2	2	3	2	1	1	1	1	1	1	1	197	
Friction Reducer (gal) :	6,028	6,502	5,937	5,644	6,082	5,281	6,990	3,886	6,696	5,303	6,891	440,024	
HCl 15% (gal) :	1,000	1,000	1,400	1,000	500	500	500	500	500	500	500	98,700	
Scale Inhibitor (gal) :	41	27	28	41	41	26	28	36	40	26	42	2,164	
Breaker :													
Average Density (SG) :													
Average of pH :													
Average of Conductivity :													
Average of Calcium :													
Average of Magnesium :													
Average of Chlorides :													
Average of Iron :													
Average of Temp pH :													
Average of Sulfide :													
Fluid Density (lb/gal) :													
Frac :													
Pumpdown :													
HCl 15% :													
HCl 7.5% :													
Difference :													
Frac :													
PD :													
HCl :													



Well Name:

Michael Southworth MSH 10H

47051025180000

LITHOLOGY/FORMATION	TOP DEPTH, MD (FT)	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, MD (FT)	BOTTOM DEPTH, TVD (FT)
Base of Fresh Water	0	0	632	632
Top of Salt Water	1403	1403	NA	NA
Pittsburgh Coal	734	734	740	740
Pottsville (ss)	843	843	872	872
Raven Cliff (ss)	1204	1203	1387	1385
Maxton (ss)	1471	1469	1785	1782
Big Injun (ss)	1874	1871	1987	1983
Berea (siltstone)	2270	2265	2299	2294
Rhinestreet (shale)	5798	5700	6179	6064
Cashaqua (shale)	6179	6064	6271	6143
Middlesex (shale)	6271	6143	6373	6220
Burket (shale)	6373	6220	6413	6247
Tully (ls)	6413	6247	6461	6277
Mahantango (shale)	6461	6277	6735	6391
Marcellus (shale)	6735	6391	NA	NA