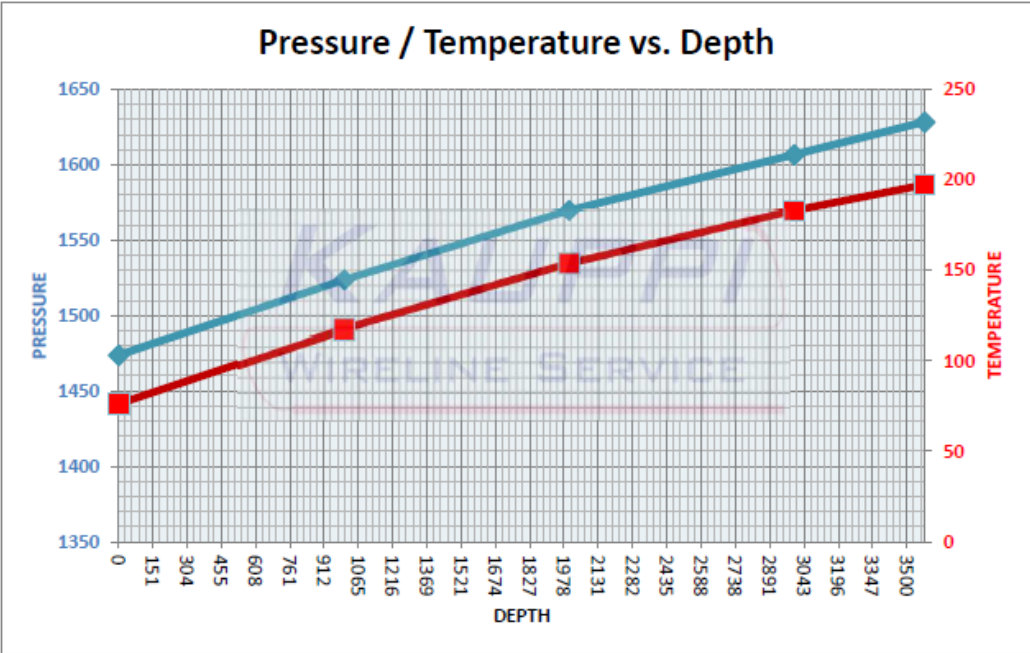


Fallon 1-10
05/13/2022
Perforations 3815' – 3835'
Top perf 3815' MD
3497' TVD and 1330' ss
BHT 203°F
BHP 1637 psig

The last interval gradients, 0.038 PSI/FT and 0.025°F/FT are used to calculate to the depth of interest.

[illegible]

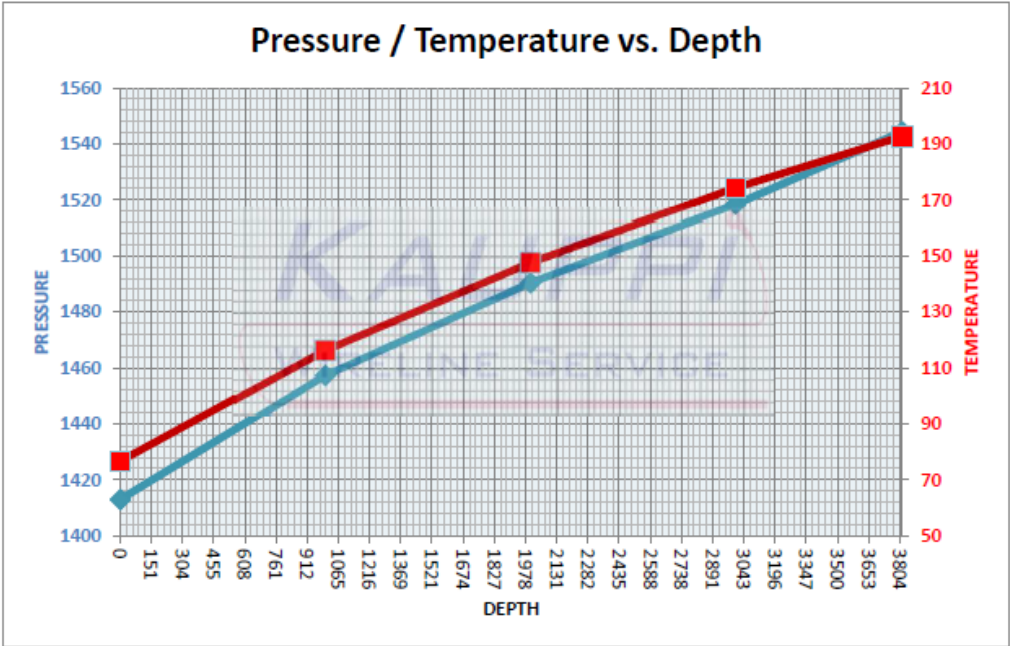
All pressures shown in PSI and all temperatures are in degrees Farenheight



Barlow 2-14
06/02/2023
Perforations 3906' – 3936'
Top perf 3906' MD
3221' TVD and 1045' ss
BHT 195°F
BHP 1547 psig

[illegible]

All pressures shown in PSI and all temperatures are in degrees Farenheight



Fallon 1-10

The Quad Combo log data from the Fallon 1-10 was utilized to cross-plot the porosity then couple with log deep Resistivity to calculate saturation of Water, SW, in the pore space.

Simple method of calculating SW

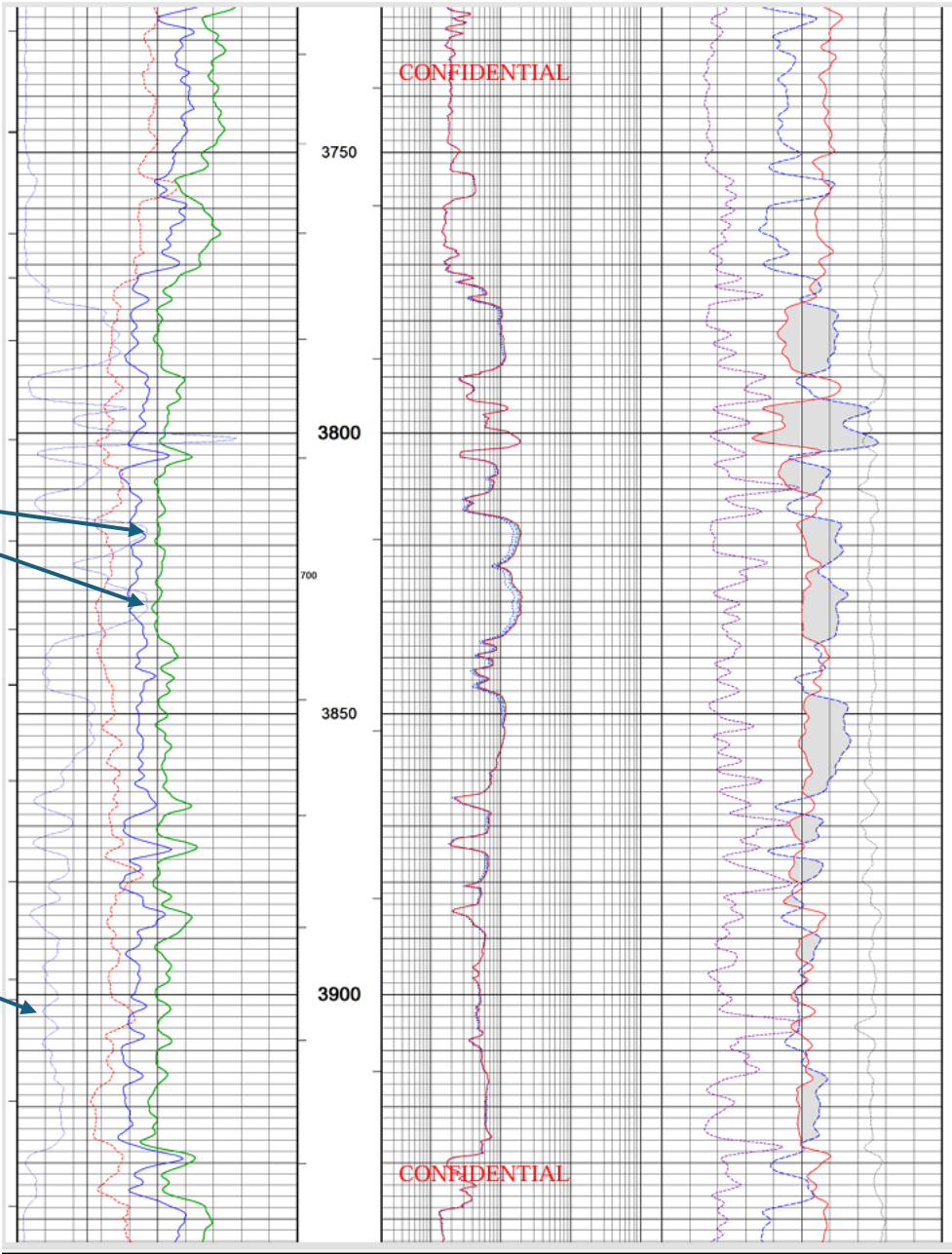
Rwa=2.3

$Sw = \sqrt{Rw / Rwa}$

$Sw = \sqrt{0.5 / 2.30}$

Sw=46.6%

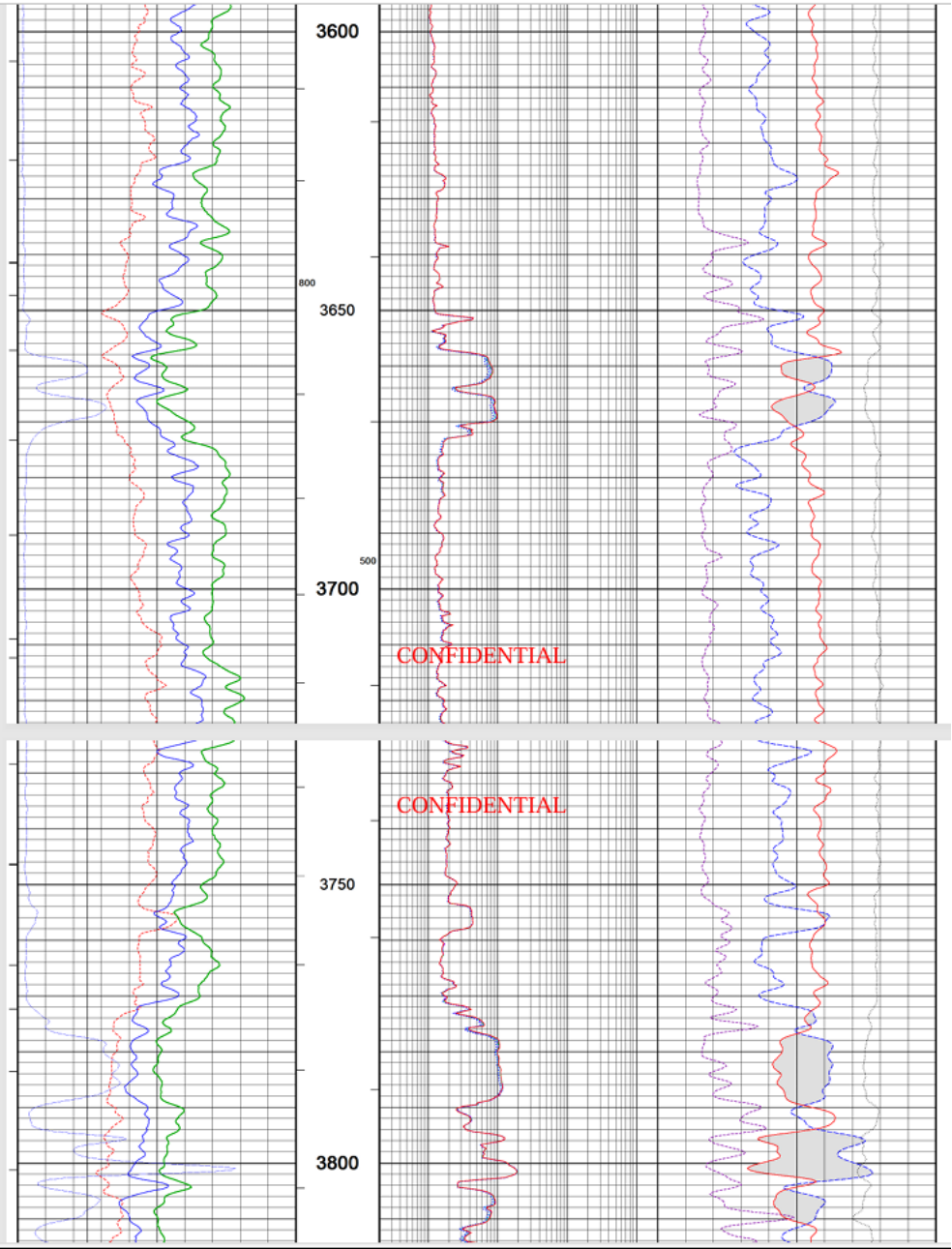
Rw=0.5



Depth	Res	D	N	Cross Pl	F	SW
3778	10	33	24	30	8.252414	0.505791
3780	10	33	23	30	8.252414	0.505791
3782	10	35	22	31	7.690668	0.488273
3784	11	33	23	30	8.252414	0.482253
3786	12	33	24	30	8.252414	0.461722
3788	10	32	24	29.5	8.556071	0.515013
3796	11	38	16	30.5	7.964289	0.47376
3800	14	38	18	32	7.183221	0.39882
3802	19	36	14	30.5	7.964289	0.360477
3806	9	35	25	32	7.183221	0.497415
3808	7	34	25	31	7.690668	0.583598
3810	8	32	26	30	8.252414	0.565492
3816	17	31	22	28	9.571983	0.417789
3818	20	30	23	28	9.571983	0.385183
3820	18	29	22	27	10.35046	0.422206
3822	15	28	22	26	11.22533	0.481653
3824	10	27	26	26.5	10.7749	0.577946
3826	15	29	24	27.5	9.950076	0.45347
3828	19	30	22	27.5	9.950076	0.402919
3830	20	30	22	27.5	9.950076	0.392716
3832	20	30	22	27.5	9.950076	0.392716
3834	17	30	22	27.5	9.950076	0.425961
3836	12	30	22	27.5	9.950076	0.506995
3848	12	29.5	21	27	10.35046	0.517095
3850	12	29.5	21	27	10.35046	0.517095
3852	11	29.5	21	27	10.35046	0.540088
3854	12	30	20	27	10.35046	0.517095
3856	10	30	20	27	10.35046	0.566449
3858	9	29	22	27	10.35046	0.597089
3860	8	28	23	26.5	10.7749	0.646163
3862	7	29	24	27.5	9.950076	0.663812
3864	5.8	30	25	28	9.571983	0.715266
Average =				28.46875		

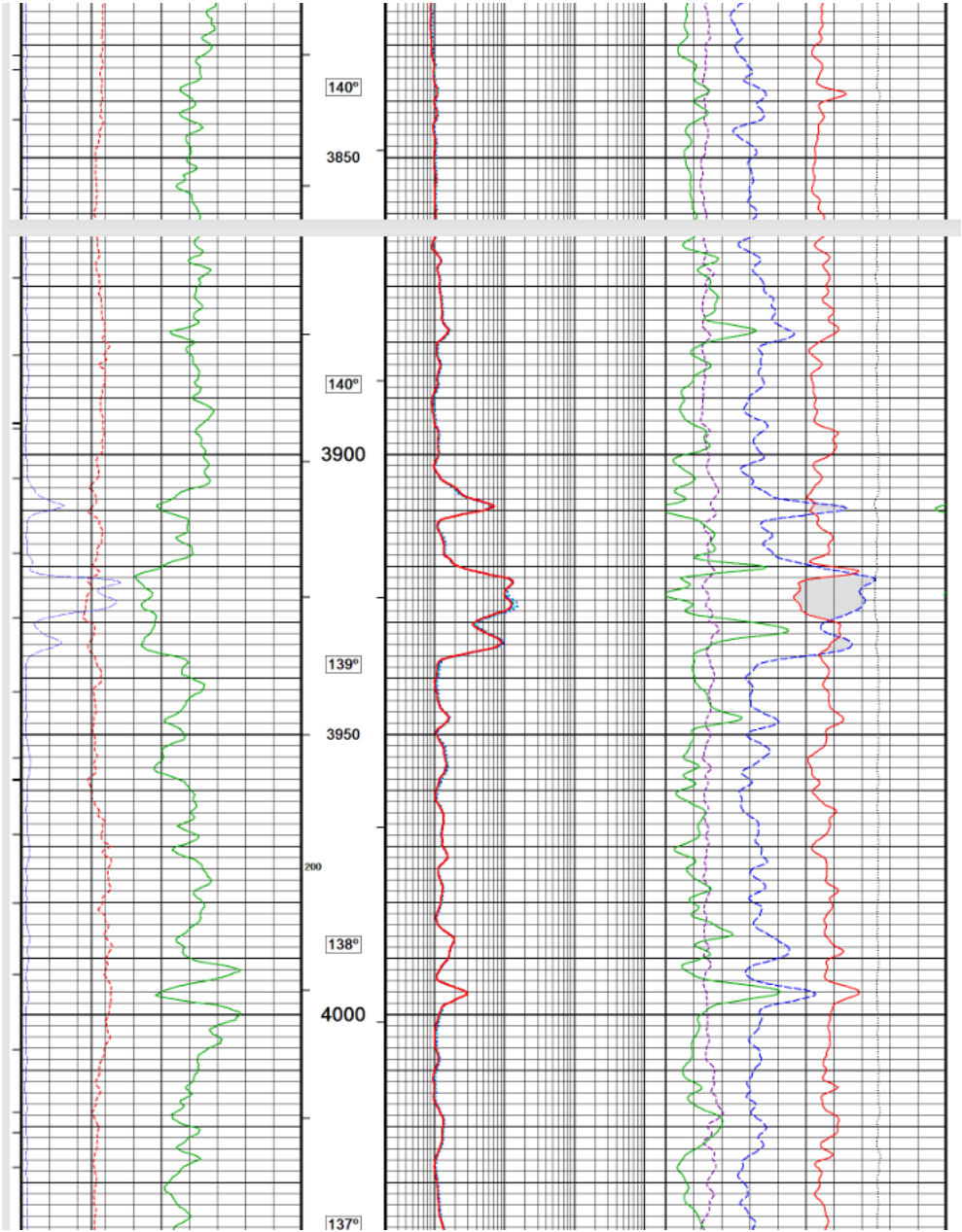
Fallon 1-10

Fallon 1-10
A Sand 3650' – 3672'
Top 3650' MD
3353' TVD and 1186' ss
BHT 199°F Est.
BHP 1630 psig Est.
It is important to note that
both the BHT and BHP are
estimated since the A
Sand has not been perf-
orated to date.



Barlow 2-14

The B Sand Quad Combo Log of the 2-14 from 3906' to 3936' is not as clean as the B Sand in the Fallon 1-10 well so the SW calculations will lead to a higher value.





Certificate of Analysis
Number: 2500-24010258-004A

Greeley Laboratory
2881 S. 31st Ave
Unit 6-8
Greeley, CO 80631

Nathan Caldwell
Snake River Oil and Gas
PO Box 500
Magnolia, AR 71753

Feb. 16, 2024

Station Name: Fallon 1-10
Station Number: ID010031G6
Cylinder No: 1511
Analyzed: 02/05/2024 11:03:49 by VRM

Sampled By: Ken Ballard
Sample Of: Gas Spot
Sample Date: 01/25/2024 12:55
Sample Conditions: 291 psia, @ 109 °F
Method: GPA-2261M

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Nitrogen	0.351	0.469		
Carbon Dioxide	0.127	0.267		
Methane	83.352	63.831		
Ethane	8.088	11.609	2.171	
Propane	3.702	7.792	1.023	
Iso-Butane	0.687	1.906	0.226	
n-Butane	1.135	3.149	0.359	
Iso-Pentane	0.381	1.312	0.140	
n-Pentane	0.417	1.436	0.152	
Hexanes	0.775	3.188	0.320	
Heptanes Plus	0.985	5.041	0.481	
	100.000	100.000	4.872	

Calculated Physical Properties	Total	C7+
Relative Density Real Gas	0.7257	3.7019
Calculated Molecular Weight	20.95	107.22
Compressibility Factor	0.9963	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1272	5889
Water Sat. Gas Base BTU	1250	5787



Certificate of Analysis
Number: 2500-24010258-006A

Greeley Laboratory
2881 S. 31st Ave
Unit 6-8
Greeley, CO 80631

Nathan Caldwell
Snake River Oil and Gas
PO Box 500
Magnolia, AR 71753

Feb. 16, 2024

Station Name: Barlow 2-14 Gas
Station Number: ID010029G6
Cylinder No: 1086
Analyzed: 02/05/2024 11:24:59 by VRM

Sampled By: Ken Ballard
Sample Of: Gas Spot
Sample Date: 01/25/2024 14:20
Sample Conditions: 297 psia, @ 101 °F
Method: GPA-2261M

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Nitrogen	0.357	0.491		
Carbon Dioxide	0.280	0.605		
Methane	83.665	65.903		
Ethane	7.847	11.585	2.105	
Propane	4.037	8.741	1.116	
Iso-Butane	0.857	2.446	0.281	
n-Butane	1.477	4.215	0.467	
Iso-Pentane	0.442	1.566	0.162	
n-Pentane	0.400	1.417	0.145	
Hexanes	0.317	1.341	0.131	
Heptanes Plus	0.321	1.690	0.157	
	100.000	100.000	4.564	

Calculated Physical Properties	Total	C7+
Relative Density Real Gas	0.7053	3.7019
Calculated Molecular Weight	20.37	107.22
Compressibility Factor	0.9966	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1236	5889
Water Sat. Gas Base BTU	1215	5787

Estimated Reservoir Gas Properties

Fallon 1-10

Z - Factor and Effective Gravity Calculation			
Well Name	Fallon 1-10		
Gas Gravity	0.73		(C) Copyright 1990-1997
% N2	0.35	%	by Douglas M Boone
% CO2	0.13	%	All Rights Reserved
% H2S	0.00	%	Version 5.0
Condensate (1=yes)	1		25-Jun-25
Reservoir Temp	203	F	
Pressure	1,637	Psia	
Oil Gravity	68	API	- needed for effective gravity
Yield	16	bbo/MMcf	- needed for effective gravity
Z - Factor	0.8797		
BHP/Z	1,861		
Effective Gravity	0.760		

Barlow 2-14

Z - Factor and Effective Gravity Calculation			
Well Name	Barlow 2-14		
Gas Gravity	0.71		(C) Copyright 1990-1997
% N2	0.36	%	by Douglas M Boone
% CO2	0.28	%	All Rights Reserved
% H2S	0.00	%	Version 5.0
Condensate (1=yes)	1		25-Jun-25
Reservoir Temp	195	F	
Pressure	1,547	Psia	
Oil Gravity	68	API	- needed for effective gravity
Yield	16	bbo/MMcf	- needed for effective gravity
Z - Factor	0.8839		
BHP/Z	1,750		
Effective Gravity	0.741		

Estimated Formation Volume Factors

Fallon 1-10

$$Bg = 35.35^{p/z_T} SCF/cuft$$

$$Bg = 100.1 SCF/cu ft$$

Barlow 2-14

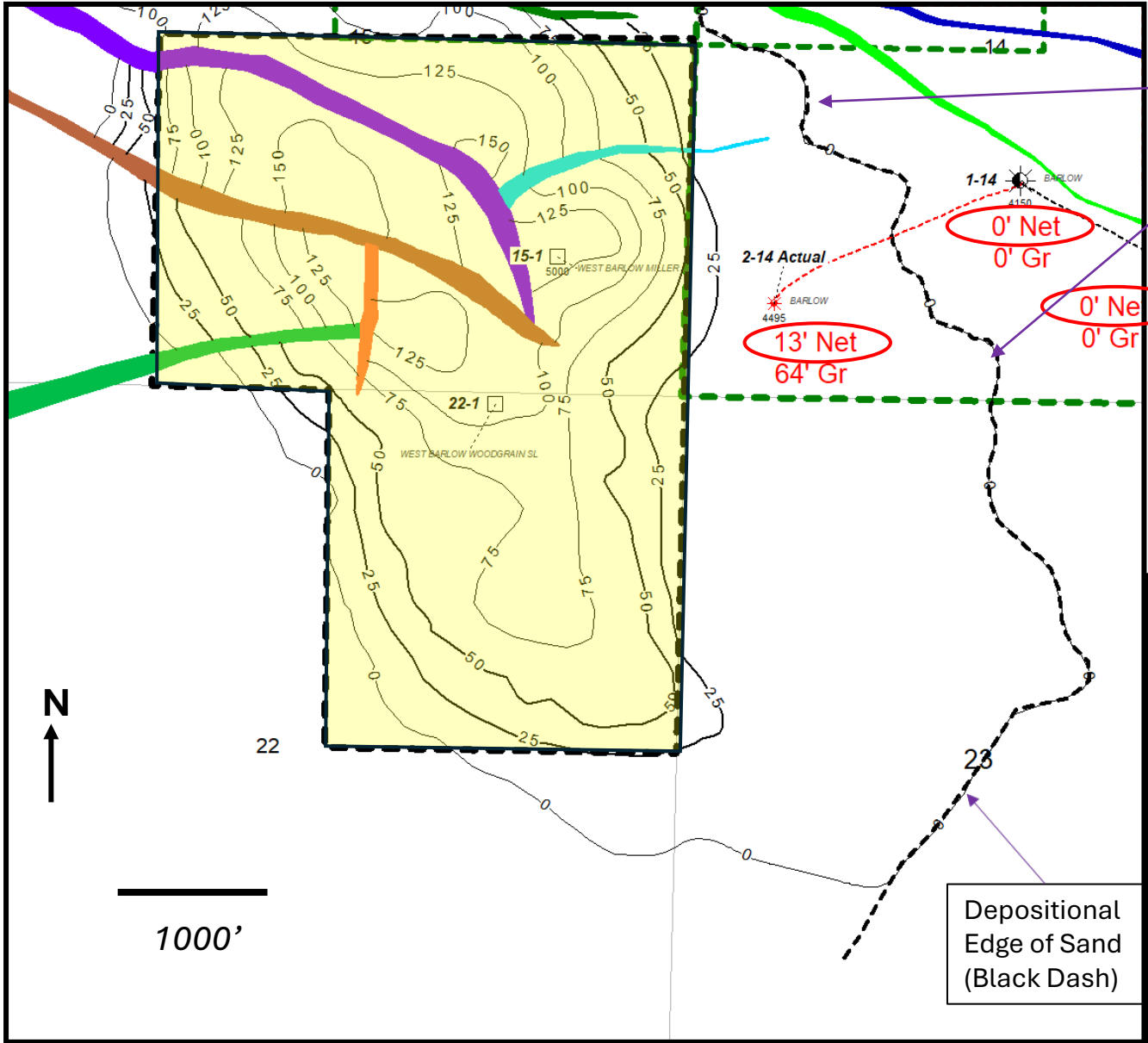
$$Bg = 35.35^{p/z_T} SCF/cuft$$

$$Bg = 95.37 SCF/cu ft$$

Estimated Gas Volume per Acre-Ft

- 1 Acre is 43,560 square feet.
- It follows that an acre of ground that is 1 foot thick has a volume of 43,560 cu ft.
- To convert to gas volume in pore space, $V = 43,560 \times \emptyset \times (1 - S_w) \times B_g$
- The average B_g from the two wells in the B Sand is 97.74 SCF/cu ft.
- Volume per Acre-Ft is $43,560 \times 0.285 \times (1 - .47) \times 97.74 = 643070$ SCF/ Acre-FT or 643 MCF/AF
- Area net recovery suggests approximately 67% recovery so recovery should be 431 MCF/AF

Isopach Map: Sand B Net Gas Sand



Depositional
Edge of Sand
(Black Dash)

1-14
BARLOW
4150
0' Net
0' Gr
0' Ne
0' Gr

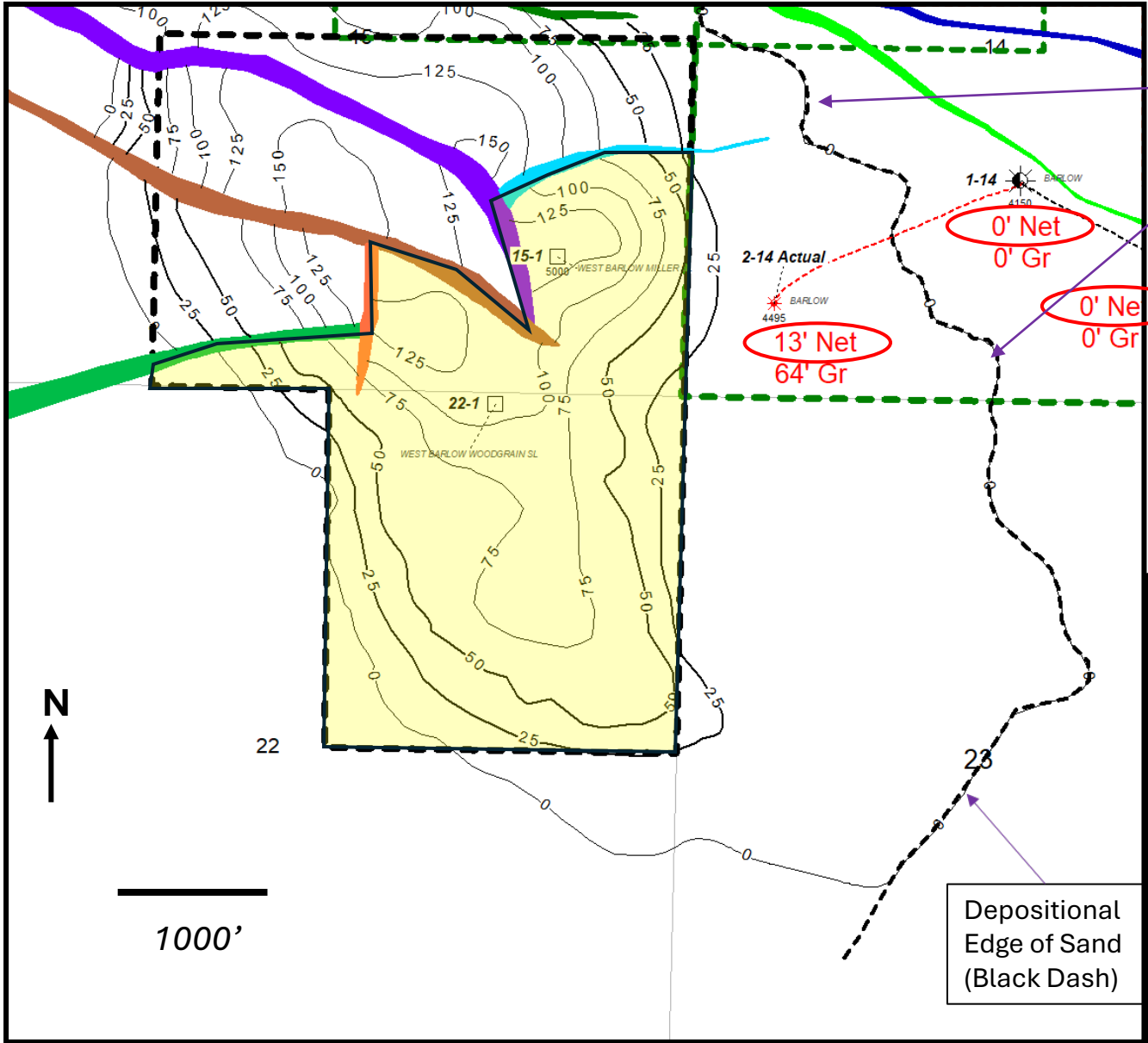
2-14 Actual
BARLOW
4495
13' Net
64' Gr

The Net Pay Contours were digitized in Surfer® and calculations resulted in a Volume of 30,150 AF. This value was then multiplied by the Gas Volume per Acre-Ft of 431 MCF/AF and resulted in 12,994,650 MCF or 13 BCF of recoverable Gas

Isopach Map
Sand B: Net Gas
Bearing Sand
Harmon Field Area
Payette Co., Idaho
Thickness: feet
Contour Interval: 25'
Scale: Approx. 1":1000'
D. M. Smith June. 2025

Depositional
Edge of Sand
(Black Dash)

Isopach Map: Sand B Net Gas Sand



Depositional
Edge of Sand
(Black Dash)

1-14
BARLOW
4150
0' Net
0' Gr

2-14 Actual
BARLOW
4495
13' Net
64' Gr

The Net Pay Contours south of the faults were digitized in Surfer® and calculations resulted in a Volume of 15,728 AF. This value was then multiplied by the Gas Volume per Acre-Ft of 431 MCF/AF and resulted in 6,778,768 MCF or 6.8 BCF of recoverable Gas

Isopach Map
Sand B: Net Gas
Bearing Sand
Harmon Field Area
Payette Co., Idaho
Thickness: feet
Contour Interval: 25'
Scale: Approx. 1":1000'
D. M. Smith June. 2025

Depositional
Edge of Sand
(Black Dash)

The graph plots shut in tubing pressure (SITP) with time after the Barlow 2-14 well has been shut in. The graph plots the SITP reading for each day of shut-in. The day of shut in and its colored plot shows that each subsequent shut-in period results in a lessor maximum pressure. This is indicative of a volumetric gas reservoir without aquifer support.

