WR-35
Rev. 8/23/13

PM

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

API 47 - 130 - 4742 County Calhoun District Center
Quad Grantsville 7.5 Pad Name Buckeye 2-H Field/Pool Name
Farm name Buckeye Oil Producing Co. Well Number 2-H
Operator (as registered with the OOG) Buckeye Oil Producing Co.
Address PO Box 129 City Wooster State OH Zip 44691

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing Easting
Landing Point of Curve Northing Easting
Bottom Hole Northing Easting

Elevation (ft) 961 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)
Flocc and Pot Ash

Date permit issued 8/30/13 Date drilling commenced 10/1/13 Date drilling ceased 10/13/13
Date completion activities began 10/25/13 Date completion activities ceased 9/1/14
Verbal plugging (Y/N) Date permission granted Granted by

RECEIVED
Office of Oil and Gas
MAR 1 8 2014
WV Department of
Environmental Protection

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

Freshwater depth(s) ft 50' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 990' Void(s) encountered (Y/N) depths No
Coal depth(s) ft No Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

08/12/2022

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API 47- 130 - 4742 Farm name Buckeye Oil Producing Co. Well number 2-H

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	15"	13"	44	New			
Surface	12.250"	9-5/8"	312	New			Y
Coal							
Intermediate 1	8-7/8"	7"	1687	New	17#		Y
Intermediate 2							
Intermediate 3							
Production	6-1/4"	4-1/2"	3965	New	11.6#		Open Hole
Tubing							
Packer type and depth set							

Comment Details

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft^3/sks)	Volume (ft^3)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Type 1	100	15.6	1.18	118	-0-	12
Coal							
Intermediate 1	Type 1	100		1.18	118	-0-	12
Intermediate 2	Unifillite	115		1.84	211		
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 3999 Loggers TD (ft) N/A
Deepest formation penetrated Berea Plug back to (ft)
Plug back procedure

Kick off depth (ft) 1687

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

No centralizers used on 13", 9-5/8", and 7"
See "Well Profile" for 4-1/2"

WAS WELL COMPLETED AS SHOT HOLE ☐ Yes ■ No DETAILS

WAS WELL COMPLETED OPEN HOLE? ■ Yes ☐ No DETAILS used a packer system, copy attached

WERE TRACERS USED ☐ Yes ■ No TYPE OF TRACER(S) USED

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	10-13-13	3965	3965	open end	Berea
2	10-13-13	3832	3832	6	Berea
3	10-13-13	3609	3609	6	Berea
4	10-13-13	3387	3387	6	Berea
5	10-13-13	3164	3164	6	Berea

Please insert additional pages as applicable. See "Well Profile" for more information.

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 (bbls)	Amount of Nitrogen/other (units)
1	10/30/13	18.3	1358	1950	850	30,000	877	-0-
2	10/30/13	18.7	1217	2639	1152	25,000	600	-0-
3	10/30/13	18.6	1338	2942	975	25,200	635	-0-
4	10/30/13	18.6	961	3097	771	24,900	549	-0-
5	10/30/13	23.4	1069	2781	918	25,000	906	-0-

Please insert additional pages as applicable. See "Field Ticket" for more information.

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PRODUCING FORMATION(S)	DEPTHS	
Berea	2348 - 2370 TVD	2430 - 2462 MD

Please insert additional pages as applicable.

GAS TEST ■ Build up □ Drawdown □ Open Flow OIL TEST ■ Flow □ Pump

SHUT-IN PRESSURE Surface 420 psi Bottom Hole _____ psi DURATION OF TEST 48 hrs

OPEN FLOW Gas 120 mcfpd Oil 5 bpd NGL _____ bpd Water 5 bpd GAS MEASURED BY ■ Estimated □ Orifice □ Pilot

LITHOLOGY/ FORMATION NAME	TOP DEPTH IN FT TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITYAND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H_2S, ETC)
	0		0		
Big Injun	1965	2100	1969	2110	
Berea	2348	2370	2430	2462	Good clean sand, show of oil

Please insert additional pages as applicable.

Drilling Contractor G & L Drilling LLC
Address 19371 St. Rt. 60 City Beverly State OH Zip 45715

Logging Company A.D.C.
Address 1200 Heavy Haul Rd. City Morgantown State WV Zip 26508

Cementing Company Universal Well Services
Address 14 Sewer Plant Rd. City Buckhannon State WV Zip 26201

Stimulating Company Universal Well Services
Address 14 Sewer Plant Rd. City Buckhannon State WV Zip 26201

Please insert additional pages as applicable.

Completed by Steven W. Sigler Telephone 330-264-8847
Signature _____ Title President Date 3/10/14

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

08/12/2022

Field Ticket - (This is not an invoice)		End Date -				Date -	10/30/2013
Customer		Customer No.			Project No.	0	
BUCKEYE OIL PRODUCING CO		2773			Task No.	0	
PO BOX 129		AFE / PO No.			Formation		
		0			Upper Devonian		
WOOSTER, OH, 44691-0129		Job Type	Job Type Description		Operator Name		
		Frac	Crosslink Frac		Kevin Wamsley / Don Tiziani		
District		Casing	New/Used	Size	From	To	Weight
Buckhannon			New	4.5"	surf	3965	11.6
		Tubing	0	0	0	0	0
Well Name and No.				Arrived on Location	0	Left Location	0
Buckeye 2H		Open Hole	0	Time	Date	Time	Date
Well Type	County: Calhoun	Perforations	0	0	0	No. of Shots	0
Gas	Township:	Perforations	0	0	0	No. of Shots	0
State	API #	Perforations	0	0	0	No. of Shots	0
WV	0	Depth	0	Drilling Contractor	0	Max PSI Allowed	4500

Product Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
803421	21 - 30 BPM Computerized Blender, 1st 4 Hrs	Ea	1.00	$4,800.00	$4,800.00	54.00%	$2,208.00
802306	Minimum Pump Charge, <1500 HP, 1st 4 Hrs	Ea	2.00	$7,250.00	$14,500.00	54.00%	$6,670.00
800010	Crew & Light Duty Vehicle Mileage Charge, Per Unit Mile	Mi	40.00	$4.00	$160.00	54.00%	$73.60
810010	Treatment Van, (WINFRAC Data Monitoring or Similar)	Job	1.00	$1,340.00	$1,340.00	54.00%	$616.40
820505	LEB 10X - Lquid Enzyme Breaker	Qts	9.00	$113.30	$1,019.70	54.00%	$469.06
821125	Unilink 8.5 Crosslinker (Borate)	Gal	238.00	$63.10	$15,017.80	54.00%	$6,908.19
822235	Unigel 19 XL	Lb	1,600.00	$25.00	$40,000.00	54.00%	$18,400.00
822565	Iron Control - A (EC6673A)	Gal	32.00	$90.00	$2,880.00	54.00%	$1,324.80
822935	NE-90, Non-Emulsifier (Non-Ionic)	Gal	120.00	$69.00	$8,280.00	54.00%	$3,808.80
833000	20-40 mesh White Sand, Area 1	CWT	1,301.00	$29.00	$37,729.00	54.00%	$17,355.34
837000	Proppant Pumping Charge, 20/40 mesh or smaller	CWT	1,301.00	$1.40	$1,821.40	54.00%	$837.84
803411	11 - 20 BPM Computerized Blender, 1st 4 Hrs	Ea	1.00	$4,060.00	$4,060.00	54.00%	$1,867.60
820955	Cla-Chek G	Gal	117.00	$40.00	$4,680.00	54.00%	$2,152.80
821915	FRP 121	Lbs	247.00	$23.75	$5,866.25	54.00%	$2,698.48

	Mileage Calculation Section	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
800000	Unit Mileage Charge Trucks and Vans (Except Bulk Units), Per Unit Mile	Mi	200.00	$8.25	$1,650.00	54.00%	$759.00
		UNITS	5.00	Total (Qty)	40.00		
800070	Proppant and Bulk Delivery Charges, Per Ton Mile	TM	2,602.00	$2.50	$6,505.00	54.00%	$2,992.30
		Loaded Total Miles	40.00	Total Sacks	1,301.00		
860050	Cement Delivery Charge	TM	0.00	$2.20	$0.00		$0.00
		Loaded Total Miles	0.00	Total Loaded Weight (LBS)	-		

Comments:					
		Gross	$150,309.15	Disc. %	54%
				Net	$69,142.21

X

CUSTOMER AUTHORIZED AGENT SIGNATURE

Customer Representative:

UWS Authorized Agent:

Date:

I have read, understood and agreed to the terms and conditions printed on the second page thereof and represent that I have full power and authority to execute this service order.

08/12/2022

TREATMENT SUMMARY

Well Name: Buckeye 2H	Stage 1	Date: 10/30/2013

DESCRIPTION OF JOB: Slick Water Fracture

Pressures (psi)

Well Open	36	5 Min	
Breakdown	NA	10 Min	
ISIP	NA	15 Min	

Pumping Volumes (gal)

Pumpdown	NA
Load & Breakdown	NA
Pad	144
Flush	119
Total Clean	877
Total Slurry	889

Treatment Stats

Treatment Volume	614	gal
Avg Pressure	1358	psi
Max Pressure	1588	psi
Avg Rate	18.3	bpm
Max Rate	24.0	bpm
Production Water Used		bbl
Frac Gradient		psi/ft
Hydraulic HP	609	hp

Perforations (ft)

Mid (TVD)	2422
Top (MD)	3965
Middle (MD)	
Bottom (MD)	
Number of Perfs	
Plug Depth	NA

Time	Rate (bpm)	Slurry Cum. Volume (gal)	Slurry Stage Volume (gal)	Pressure (psi)	Description of Stage or Event
11:19				4504	Pressure Test
11:23		0	27	49	Pump Pad
11:26	20.6	27	117	1950	Establish Rate
11:32	20.0	144	249	1517	Start Sand @ 0.50# 20/40
11:45	19.4	393	200	1385	Start Sand @ 1.00# 20/40
11:57	19.0	593	77	1306	Start Sand @ 2.00# 20/40
12:01	18.9	670	89	1244	Start Sand @ 3.00# 20/40
12:05	19.0	759	66	1191	Flush
12:08	18.9	825	53	1472	Drop 3" Ball
		878			Land 3" Frac Ball

Material Totals

Proppant	20/40	300	sks
Additives			
	LEB-10X	2	Qts
	Unigel 19XL	456	lbs
	Iron Control A	8	gal
	Unilink 8.5	62	gal
	NE-90	31	gal
	Cla Check G	31	gal

UNIVERSAL WELL SERVICES, INC.

08/12/2022

TREATMENT SUMMARY

Well Name: Buckeye 2H	Stage 2	Date: 10/30/2013

DESCRIPTION OF JOB: Slick Water Fracture

Pressures (psi)

Well Open	NA	5 Min	
Breakdown	2639	10 Min	
ISIP	1152	15 Min	

Pumping Volumes (gal)

Pumpdown	NA
Load & Breakdown	NA
Pad	103
Flush	64
Total Clean	600
Total Slurry	636

Treatment Stats

Treatment Volume	433	gal
Avg Pressure	1217	psi
Max Pressure	1265	psi
Avg Rate	18.7	bpm
Max Rate	20.2	bpm
Production Water Used		bbl
Frac Gradient	0.909	psi/ft
Hydraulic HP	558	hp

Perforations (ft)

Mid (TVD)	2422
Top (MD)	3832
Middle (MD)	
Bottom (MD)	
Number of Perfs	
Plug Depth	3923

Time	Rate (bpm)	Slurry Cum. Volume (gal)	Slurry Stage Volume (gal)	Pressure (psi)	Description of Stage or Event
12:14	5.6	878	0	2639	Land 3" Ball
12:13	5.6	878	103	1054	Pump Pad
12:20	18.2	981	199	1296	Start Sand @ 0.50# 20/40
12:30	18.9	1180	93	1260	Start Sand @ 1.00# 20/40
12:35	18.8	1273	84	1235	Start Sand @ 2.00# 20/40
12:44	18.5	1357	93	1202	Start Sand @ 3.00# 20/40
12:45	18.7	1450	64	1248	Flush
12:48	18.6	1514		1656	Shutdown

Material Totals

Proppant	20/40	250	sks
Additives			
	LEB-10X	2.00	Qts
	Unigel 19XL	312	lbs
	Iron Control A	5	gal
	Unilink 8.5	43	gal
	NE-90	21	gal
	Cla Check G	21	gal

UNIVERSAL WELL SERVICES, INC.

08/12/2022

TREATMENT SUMMARY

Well Name: Buckeye 2H	Stage 3	Date: 10/30/2013

DESCRIPTION OF JOB: Slick Water Fracture

Pressures (psi)

Well Open	562	5 Min	
Breakdown	2942	10 Min	
ISIP	NA	15 Min	

Pumping Volumes (gal)

Pumpdown	NA
Load & Breakdown	NA
Pad	109
Flush	60
Total Clean	635
Total Slurry	642

Treatment Stats

Treatment Volume	466	gal
Avg Pressure	1338	psi
Max Pressure	1416	psi
Avg Rate	18.6	bpm
Max Rate	20.8	bpm
Production Water Used		bbl
Frac Gradient		psi/ft
Hydraulic HP	610	hp

Perforations (ft)

Mid (TVD)	2422
Top (MD)	3609
Middle (MD)	
Bottom (MD)	
Number of Perfs	
Plug Depth	3700

Time	Rate (bpm)	Slurry Cum. Volume (gal)	Slurry Stage Volume (gal)	Pressure (psi)	Description of Stage or Event
14:32	16.7	0	50	570	Pump Pad
14:39	3.3	50	59	2942	Land Frac Ball
14:42	18.1	109	202	1416	Start Sand @ 0.50# 20/40
14:53	19.4	311	100	1384	Start Sand @ 1.00# 20/40
14:59	18.4	411	83	1354	Start Sand @ 2.00# 20/40
15:03	18.6	494	88	1310	Start Sand @ 3.00# 20/40
15:08	18.5	582	12	1282	Flush
15:08	18.9	594	48	1325	Drop Frac Ball
		642			

Material Totals

Proppant	20/40	252	sks
Additives			
	FRP-121		lbs
	LEB-10X	2.00	Qts
	Unigel 19XL	440	lbs
	Iron Control A	2	gal
	Unilink 8.5	67	gal
	NE-90	17	gal
	Cla Check G	15	gal

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08/12/2022

TREATMENT SUMMARY

Well Name: Buckeye 2H	Stage 4	Date: 10/30/2013

DESCRIPTION OF JOB: Slick Water Fracture

Pressures (psi)

Well Open	NA	5 Min	
Breakdown	3097	10 Min	
ISIP	771	15 Min	

Pumping Volumes (gal)

Pumpdown	NA
Load & Breakdown	NA
Pad	55
Flush	62
Total Clean	549
Total Slurry	590

Treatment Stats

Treatment Volume	432	gal
Avg Pressure	961	psi
Max Pressure	1053	psi
Avg Rate	18.6	bpm
Max Rate	19.7	bpm
Production Water Used		bbl
Frac Gradient	0.752	psi/ft
Hydraulic HP	438	hp

Perforations (ft)

Mid (TVD)	2422
Top (MD)	3387
Middle (MD)	
Bottom (MD)	
Number of Perfs	
Plug Depth	3478

Time	Rate (bpm)	Slurry Cum. Volume (gal)	Slurry Stage Volume (gal)	Pressure (psi)	Description of Stage or Event
15:12	2.8	642	55	3097	Land Frac Ball
15:15	19.0	697	204	1028	Start Sand @ 0.50# 20/40
15:26	18.7	901	102	1009	Start Sand @ 1.00# 20/40
15:32	18.8	1003	87	956	Start Sand @ 2.00# 20/40
15:37	18.5	1090	80	884	Start Sand @ 3.00# 20/40
15:41	18.6	1170	62	879	Flush
15:44	18.9	1232		1099	Shutdown

Material Totals

Proppant	20/40	249	sks
Additives			
	FRP-121		lbs
	LEB-10X	2.00	Qts
	Unigel 19XL	392	lbs
	Iron Control A	2	gal
	Unilink 8.5	66	gal
	NE-90	18	gal
	Cla Check G	16	gal

UNIVERSAL WELL SERVICES, INC.

08/12/2022

TREATMENT SUMMARY

Well Name: Buckeye 2H	Stage 5	Date: 10/30/2013

DESCRIPTION OF JOB: Slick Water Fracture

Pressures (psi)

Well Open	620	5 Min	
Breakdown	2781	10 Min	
ISIP	918	15 Min	

Pumping Volumes (gal)

Pumpdown	NA
Load & Breakdown	NA
Pad	154
Flush	95
Total Clean	906
Total Slurry	928

Treatment Stats

Treatment Volume	657	gal
Avg Pressure	1069	psi
Max Pressure	1179	psi
Avg Rate	23.4	bpm
Max Rate	24.7	bpm
Production Water Used		bbl
Frac Gradient	0.813	psi/ft
Hydraulic HP	613	hp

Perforations (ft)

Mid (TVD)	2422
Top (MD)	3164
Middle (MD)	
Bottom (MD)	
Number of Perfs	
Plug Depth	3255

Time	Rate (bpm)	Slurry Cum. Volume (gal)	Slurry Stage Volume (gal)	Pressure (psi)	Description of Stage or Event
16:12	3.2	0	1	619	Pump Pad
16:13	3.2	1	48	710	Drop Frac Ball
16:18	4.7	49	12	2781	Land Frac Ball
16:19	24.0	61	93	1193	Establish Rate
16:23	23.5	154	295	1198	Start Sand @ 0.50# 20/40
16:36	22.9	449	197	1072	Start Sand @ 1.00# 20/40
16:45	23.6	646	187	1027	Start Sand @ 1.50# 20/40
16:52	23.2	833	95	1086	Flush
16:57	13.1	928		973	Shutdown

Material Totals

Proppant	20/40	250	sks
Additives			
	FRP-121	247	lbs
	LEB-10X	1.00	Qts
	Unigel 19XL	0	lbs
	Iron Control A	15	gal
	Unilink 8.5	0	gal
	NE-90	33	gal
	Cla Check G	34	gal

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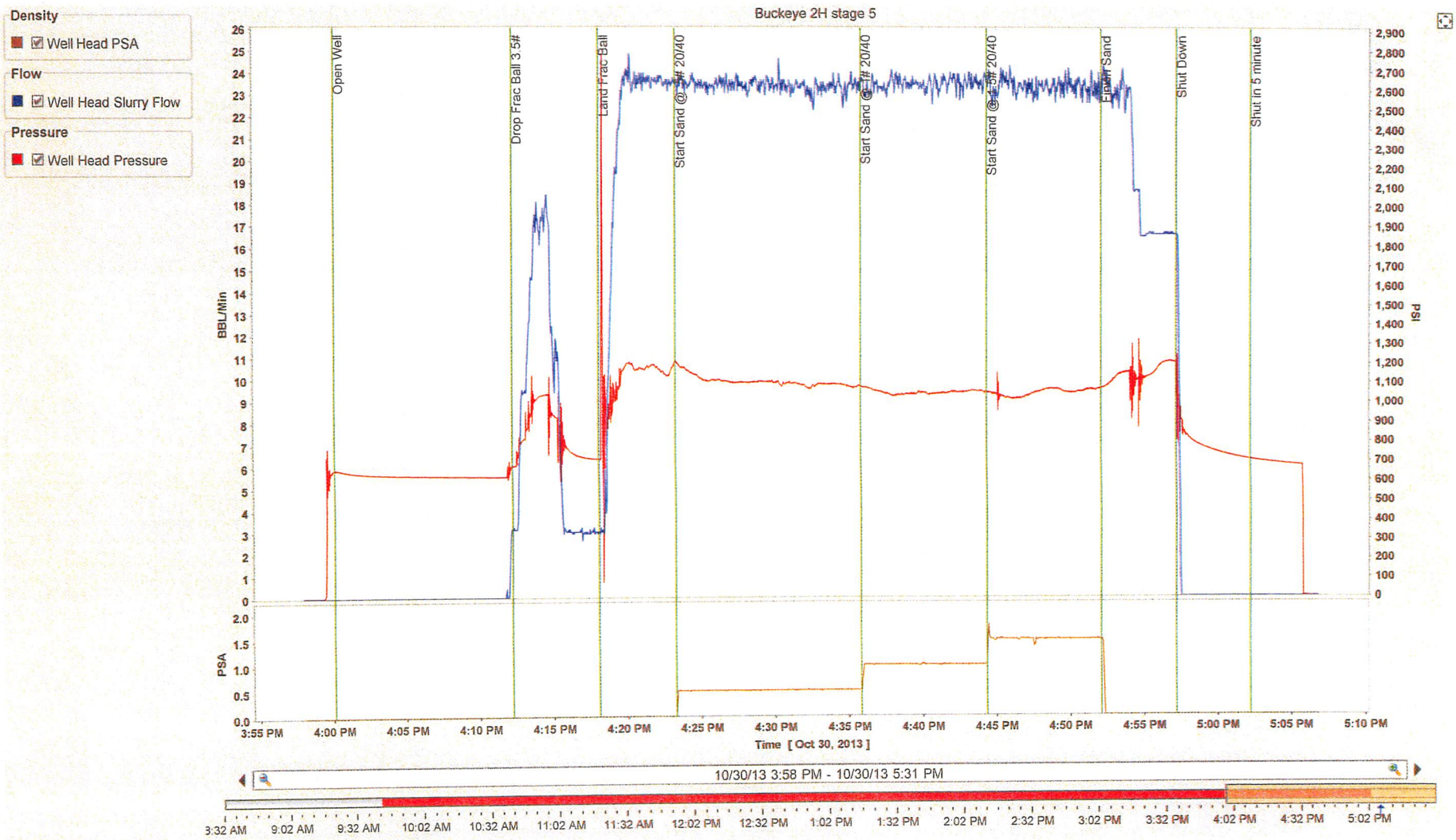
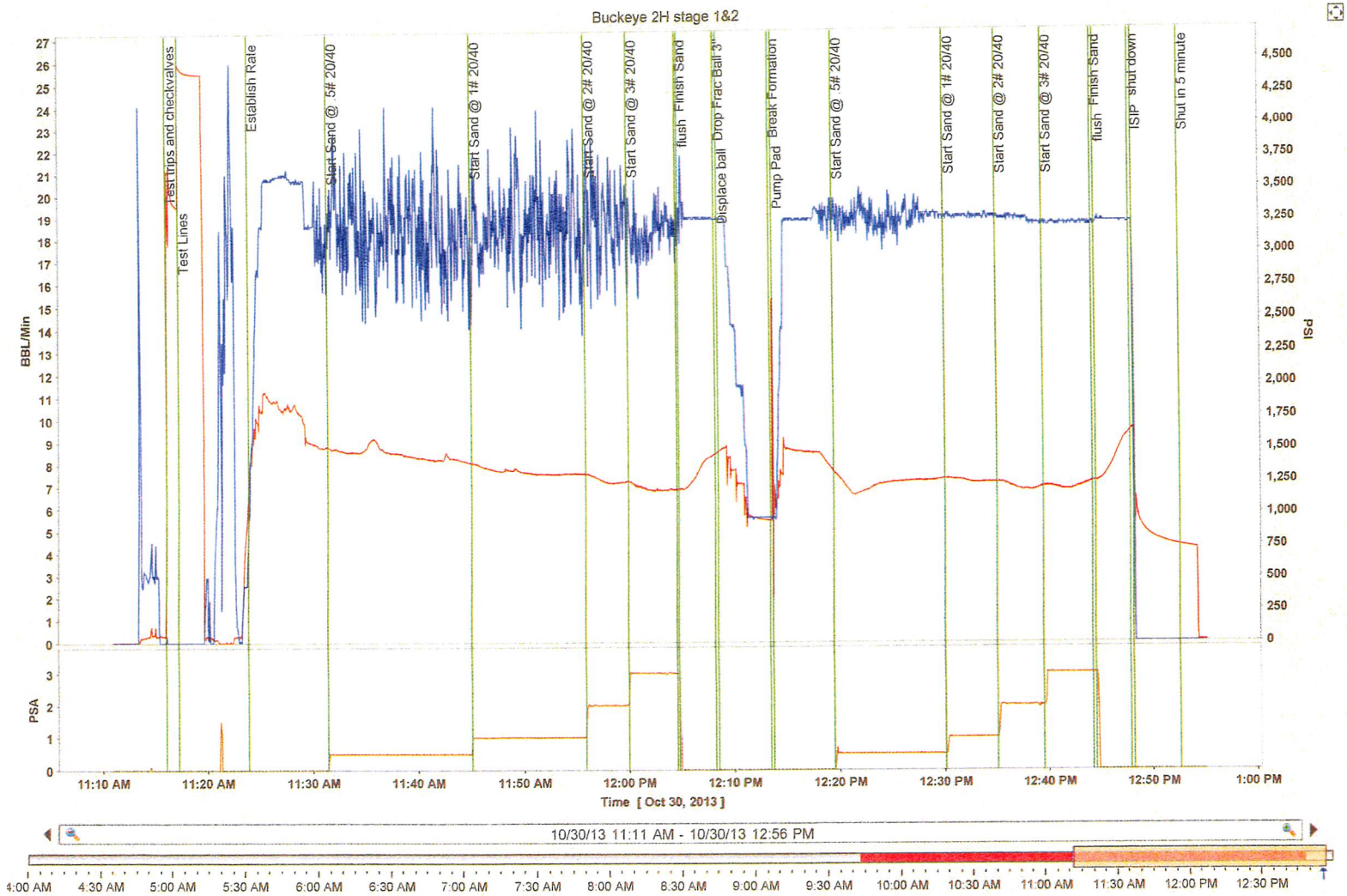
08/12/2022


Buckeye 2H stage 5
Density
Well Head PSA
Flow
Well Head Slurry Flow
Pressure
Well Head Pressure
Open Well
Drop Frac Ball 3.5#
Land Frac Ball
Start Sand @ 1# 20/40
Start Sand @ 1# 20/40
Start Sand @ 1.5# 20/40
Flush Sand
Shut Down
Shut in 5 minute
BBL/Min
PSI
PSA
Time [Oct 30, 2013]
10/30/13 3:58 PM - 10/30/13 5:31 PM


Buckeye 2H stage 1&2
Density
Well Head PSA
Flow
Well Head Slurry Flow
Pressure
Well Head Pressure
Test trips and checkvalves
Test Lines
Establish Rate
Start Sand @ .5# 20/40
Start Sand @ 1# 20/40
Start Sand @ 2# 20/40
Start Sand @ 3# 20/40
flush Finish Sand
Displace ball Drop Frac Ball 3"
Pump Pad Break Formation
Start Sand @ .5# 20/40
Start Sand @ 1# 20/40
Start Sand @ 2# 20/40
Start Sand @ 3# 20/40
flush Finish Sand
ISIP shut down
Shut in 5 minute
BBL/Min
PSI
PSA
Time [Oct 30, 2013]
10/30/13 11:11 AM - 10/30/13 12:56 PM

08/12/2022

Peak Completion Technologies

End of 7.0" csg @ 1686'

Casing Hanger PKR 1564'

KOP 1703'

BOC 2737'

Predator II OH Packer
Set @ 3074'

Strata Port
3.53" ID @ 3164'
Open @ 1860 psi
Use 3.750" ball

Predator II OH Packer
Set @ 3255'

Strata Port
3.28" ID @ 3387'
Open @ 1860 psi
Use 3.500" ball

Predator II OH Packer
Set @ 3478'

Strata Port
3.03" ID @ 3609'
Open @ 1860 psi
Use 3.375" ball

Predator II OH Packer
Set @ 3700'

Strata Port
2.78" ID @ 3832'
Open @ 1860 psi
Use 3.250" ball

Predator II OH Packer
Set @ 3923

Floated Pump Out Plug
@ 3965' Open
@ 4624 psi

DOWN HOLE WELL PROFILE

WELL NAME	Buckeye 2-H	DATE	10/13/13
SUPERVISOR	Mark Lytle	TOOL HAND	David McCauley
PHONE #	0	PHONE #	304 472-5555
RIG #	G & L Drilling RIG 3	FIELD TICKET #	32590

ELEVATIONS

	GL ELEV	KB ELEV		RIG KBD	TVD
		0		6	2422.00
CASING / OPEN HOLE LAYOUT		OD (IN)	LANDED DEPTH	WEIGHT (LB/FT)	TOP OF (FTKB)
CASING DESCRIPTION		7	1686.00	20	0
WINDOW DESCRIPTION		6 1/4			1,703.00
OPEN HOLE DESCRIPTION		6 1/4	3997.00	JUNCTION @	1703.00

DESCRIPTION

Liner Placement Schematic

DOWNHOLE DESCRIPTION FROM BOTTOM UP

BOTTOM @	DESCRIPTION		LENGTH	ID	OD
3965.15	4 1/2" Floated Pump Out Plug Assembly		0.85	0.750	5.000
3964.30	1 Joints 4 1/2", 11.6#, N-80 Liner with LTC Threads	Jt# 1	41.75	4.000	4.500
3922.55	7 x 4 1/2 Predator II Open Hole Isolation Packer		4.00	3.995	5.688
3918.55	4 1/2" P-110 Liner Sub with LTC Threads		3.10	4.000	4.500
3915.45	2 Joints 4 1/2", 11.6#, N-80 Liner with LTC Threads	Jt# 2-3	83.50	4.000	4.500
3831.95	7 x 4 1/2 Strata-Port Frac Sleeve w/ 2.781 ID Seat (Open with 3.000" Ball)		3.55	2.781	5.688
3828.40	4 1/2" P-110 Liner Sub with LTC Threads		3.10	4.000	4.500
3825.30	3 Joints 4 1/2", 11.6#, N-80 Liner with LTC Threads	Jt# 4-6	125.25	4.000	4.500
3700.05	7 x 4 1/2 Predator II Open Hole Isolation Packer		4.00	3.995	5.688
3696.05	4 1/2" P-110 Liner Sub with LTC Threads		3.10	4.000	4.500
3692.95	2 Joints 4 1/2", 11.6#, N-80 Liner with LTC Threads	Jt# 7-8	83.50	4.000	4.500
3609.45	7 x 4 1/2 Strata-Port Frac Sleeve w/ 3.031 ID Seat (Open with 3.250" Ball)		3.55	3.031	5.688
3605.90	4 1/2" P-110 Liner Sub with LTC Threads		3.10	4.000	4.500
3602.80	3 Joints 4 1/2", 11.6#, N-80 Liner with LTC Threads	Jt# 9-11	125.25	4.000	4.500
3477.55	7 x 4 1/2 Predator II Open Hole Isolation Packer		4.00	3.995	5.688
3473.55	4 1/2" P-110 Liner Sub with LTC Threads		3.10	4.000	4.500
3470.45	2 Joints 4 1/2", 11.6#, N-80 Liner with LTC Threads	Jt# 12-13	83.50	4.000	4.500
3386.95	7 x 4 1/2 Strata-Port Frac Sleeve w/ 3.281 ID Seat (Open with 3.500" Ball)		3.55	3.281	5.688
3383.40	4 1/2" P-110 Liner Sub with LTC Threads		3.10	4.000	4.500
3380.30	3 Joints 4 1/2", 11.6#, N-80 Liner with LTC Threads	Jt# 14-16	125.25	4.000	4.500
3255.05	7 x 4 1/2 Predator II Open Hole Isolation Packer		4.00	3.995	5.688
3251.05	4 1/2" P-110 Liner Sub with LTC Threads		3.10	4.000	4.500
3247.95	2 Joints 4 1/2", 11.6#, N-80 Liner with LTC Threads	Jt# 17-18	83.50	4.000	4.500
3164.45	7 x 4 1/2 Strata-Port Frac Sleeve w/ 3.531 ID Seat (Open with 3.750" Ball)		3.55	3.531	5.688
3160.90	4 1/2" P-110 Liner Sub with LTC Threads		3.10	4.000	4.500
3157.80	2 Joints 4 1/2", 11.6#, N-80 Liner with LTC Threads	Jt# 19-20	83.50	4.000	4.500
3074.30	7 x 4 1/2 Predator II Open Hole Isolation Packer		4.00	3.995	5.688
3070.30	4 1/2" P-110 Liner Sub with LTC Threads		3.10	4.000	4.500
3067.20	36 Joints 4 1/2", 11.6#, N-80 Liner with LTC Threads	Jt# 21-56	1503.00	4.000	4.500
1564.20	7 x 4 1/2 Peak SMP-X Liner Hanger System		9.35	3.995	6.000
1554.85	4 1/2" P-110 Liner Sub with LTC Threads		3.10	4.000	4.500
1551.75	37 Joints 4 1/2", 11.6#, P-110 Liner with LTC Threads	Jt# 57-93	1544.75	4.000	4.500
7.00	Landed Casing 7' below K.B.		9.00	0.000	0.000
-2.00			0.00	0.000	0.000

WEIGHT OF STRING	28095	TOTAL STRING LENGTH	3965.15
PUSH / PULL TEST		STICK-UP OFF RIG FLOOR	2.00
TOP OF OPEN HOLE PACKER	3070.30	TUBING BOTTOM	3958.15

Total Drilled Depth
3997'

***** CONFIDENTIAL *****
Not To Be Disclosed Outside of Buckeye Oil

08/12/2022