

PICEANCE VLY

RU 09-06S-094W
DOE 1-W-9 Pad
RWF 311-16
WORKOVER

Operation Summary Report

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1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	RWF 311-16		
Project	RU 09-06S-094W	Site	DOE 1-W-9 Pad
Rig Name/No.		Event	WORKOVER
Start date	10/28/2021	End date	11/11/2021
Spud date	3/16/2007	UWI	RWF 311-16
Active datum	KELLY BUSHING @5,873.0ft (above Mean Sea Level)		
Afe No./Description	P21LOE /		

2 Summary

2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Code	Sub	Class	MD from (ft)	Operation
9/8/2021	0:00							Equalize well 1.75" impression block to 6410' :impression of trash material Set Collar stop @ 6313' Perf hole @6312' 2" JUC pulled collar stop @ 6313' Left well shut in
10/28/2021	0:00 10:00	10.00		WSI	01	P		WSI 120/120/120
	10:00 12:00	2.00		MIRU	02	P		MIRU EWS 318 Piece in equipment
	12:00 13:00	1.00		MIRU	01	P		Kill tbg with 15 bbls ND Prod head NU BOP's Pressure test BOP's to 400/4000 psi GOOD TEST
	13:00 13:20	0.33		POOH	02	P		RU Floor Install sub Unland Tbg hanger SW 47k Strip in rubber
	13:20 13:45	0.42		WSI	01	P		RIH to tag fill @ 8573' 14' below BP 172' Below land depth
	13:45 15:30	1.75		POOH	01	P		POOH with 145 Jts (4601') 120 jnts LIH (3800') Kill Casing and remove rubber
	15:30 15:45	0.25		LOC	01	P		Make up 4 1/2" Tubing set bridge plug
	15:45 17:00	1.25		RIH	01	P		RIH to set depth @ 4050' Jnt #128 EOT 7850' 1531' Below TP 17 jnts out SAW NO BOBBLES OR INDICATIONS OF PARTED CASING
	17:00 17:15	0.25		PLUG	01	P		Set TSBP SW 43k Pack off to 63k J-off plug SW 14k
	17:15 17:30	0.25		PUMP	01	P		Roll hole with 65 bbls
17:30 17:45	0.25		PUMP	01	P		Attempt to pressure test casing to 500 PSI Broke circulation up Braidenhead BAD TEST	

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Code	Sub	Class	MD from (ft)	Operation
10/29/2021	17:45 18:00	0.25		WSI	01	P		Secure well SDFN
	18:00 0:00	6.00		WSI	01	P		WSIF
	0:00 7:00	7.00		WSI	01	P		WSI 0/0/0
	7:00 9:00	2.00		POOH	01	P		POOH with Ret head
	9:00 14:45	5.75		RIH	01	P		Make up 4 1/2" 32A tension packer and unloader RIH and hunt hole in casing BAD CASNG FOUND BETWEEN 155-2234' ENCOUNTERED TIGHT SPOT @ 2970'
	14:45 17:30	2.75		POOH	01	P		POOH with 32A packer Break out packer
	17:30 17:45	0.25		WSI	01	P		Secure well SDFN
	17:45 0:00	6.25		WSI	01	P		WSIFW
11/1/2021	0:00 7:00	7.00		WSI	01	P		WSI 0/0/0
	7:00 7:30	0.50		LOC	01	P		MIRU DLD Wireline
	7:30 9:00	1.50		WIRE	01	P		RIH with 3.78" gauge ring Tag @ 245' (Taggd at a collar) POOH with gauge ring RIH with 3.65" gauge ring and tag @ 245' and fall through RIH and tag TSBP @ 4050' Log out of hole Saw a 2' Gap @ 245'
	9:00 9:30	0.50		LOC	01	P		RD DLD RD Floor
	9:30 10:00	0.50		LOC	01	P		ND BOP's Remove time saver wellhead
	10:00 11:00	1.00		WOT	06	P		Ran to KLX for tools
	11:00 12:00	1.00		LOC	01	P		Make up 3 1/8" casing spear with 3.947" grapple Spear casing and unland slips
	12:00 12:45	0.75		LOC	01	P		Remove spear from casing RU floor and tongs Prep to pull casing
	12:45 13:30	0.75		POOH	01	P		POOH with 5 jnts and a partial of casing (221.39') COLLAR WAS SPLIT "Pin looking up"
	13:30 14:00	0.50		FISH	02	P		Make up 7 3/4" Overshot with 4 1/2" grapple and full open topsub
	14:00 14:30	0.50		RIH	01	P		RIH with OS BHA and 5 jnts casing to tag FT @ 245'
	14:30 14:45	0.25		FISH	02	P		Latch onto casing Pulling free @ 6k (4k over SW) Feels like another floating fish
	14:45 15:30	0.75		POOH	01	P		POOH with overshot Remove overshot from casing
	15:30 16:30	1.00		POOH	01	P		POOH with 14 jnts casing (589.77) ANOTHER split collar on bottom "Pin looking up" TOTAL RECOVERED 19 JNTS AND PARTIAL (811.16') FISHTOP WITH KB @ 835.16'
16:30 17:00	0.50		WSI	01	P		RD Floor Install wellhead NU BOP's Secure well for night	
17:00 0:00	7.00		WSI	01	P		WSIFN	
11/2/2021	0:00 7:00	7.00		WSI	01	P		WSI NA/0/0
	7:00 8:00	1.00		LOC	01	P		ND BOP's Remove casing head RU Floor Prep to run tbg
	8:00 8:45	0.75		RIH	01	P		RIH with 7 3/8" Overshot BHA with 4 1/2" grapple

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Code	Sub	Class	MD from (ft)	Operation
	8:45 9:00	0.25		FISH	02	P		Latch onto casing Pull to 35k Casing pulled apart gained 11k SW
	9:00 9:30	0.50		POOH	01	P		POOH to OS BHA Remove OS from fish
	9:30 10:00	0.50		LOC	01	P		Swap out to 4 1/2" Handling tools
	10:00 11:30	1.50		POOH	01	P		POOH with 19 jnts 4 1/2" Casing 801.61' 38 JNTS (1612') TOTAL RECOVERED COLLAR LOOKING UP FISHTOP @ 1636'
	11:30 12:00	0.50		WOT	06	P		Take lunch while waiting on tools
	12:00 12:20	0.33		FISH	02	P		Make up 7 3/8" Overshot with 5" Grapple and collar stop
	12:20 13:00	0.67		RIH	01	P		RIH and latch onto fish @ 1636' Pull over to 25k Casing parted Gained 3k SW
	13:00 13:30	0.50		LOC	01	P		POOH with OS BHA Remove OS from fish
	13:30 14:00	0.50		LOC	01	P		Swap out Handling tools
	14:00 14:45	0.75		FISH	02	P		POOH with 3 jnts 4 1/2" Casing 126.80' 41 JNTS (1739') TOTAL RECOVERED COLLAR LOOKING UP FISHTOP @ 1763'
	14:45 15:00	0.25		FISH	02	P		Make up 7 3/8" Overshot with 5" Grapple and collar stop
	15:00 15:45	0.75		FISH	02	P		RIH and latch onto fish @ 1739' Pull over to 30k Casing parted Gained 4k SW
	15:45 16:15	0.50		POOH	01	P		POOH with OS BHA Remove OS from fish
	16:15 16:30	0.25		FISH	02	P		Swap out handling tools
	16:30 17:15	0.75		FISH	02	P		POOH with 10 jnts 4 1/2" Casing 422.04' 51 JNTS (2161') TOTAL RECOVERED COLLAR LOOKING UP FISHTOP @ 2185'
	17:15 18:00	0.75		LOC	01	P		RD Tongs and floor Install Casing head NU BOP's Secure well SDFN
	18:00 0:00	6.00		WSI	01	P		WSIFN
	11/3/2021	0:00 7:00	7.00		WSI	01	P	
	7:00 8:00	1.00		LOC	01	P		ND BOP's Remove casing head
	8:00 8:15	0.25		FISH	02	P		Make up 7 3/8" OS with 5" Grapple
	8:15 9:00	0.75		RIH	01	P		RIH and latch onto fish @ 2185'
	9:00 9:15	0.25		FISH	02	P		Pull test casing to 45k multiple times MIRU DLD Wireline
	9:15 10:45	1.50		FISH	01	P		RIH with 1 1/2" freepoint tool Freepoint casing Casing free @ 3190' POOH with freepoint tool
	10:45 11:00	0.25		FISH	02	P		Release overshot from fish
	11:00 12:00	1.00		POOH	01	P		POOH with overshot
	12:00 12:45	0.75		LOC	01	P		Redress overshot Prep to run OSBHA on casing
	12:45 15:00	2.25		RIH	01	P		RIH and latch onto Casing with OSBHA @ 2185'

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Code	Sub	Class	MD from (ft)	Operation
	15:00 15:45	0.75		FISH	01	P		MIRU DLD RIH with 3.62 chemical cutter Pull up to 40k Make cut @ 3190' Lost 10k SW Pull cutter out to 700' Cutter hung up
	15:45 17:00	1.25		FISH	01	P		Clamp wireline Strip off 1 jnt casing
	17:00 18:00	1.00		LOC	01	P		Drop casing slips Strip on Wireline packoff Secure well SDFN
	18:00 0:00	6.00		WSI	01	P		WSIFN
11/4/2021	0:00 7:00	7.00		WSI	01	P		WSIFN NA/0/0
	7:00 8:00	1.00		LOC	01	P		Prep to strip casing and E line out of hole
	8:00 11:00	3.00		POOH	01	P		Strip out of hole with 17 Jnts casing and E line Recover Chemical cutter
	11:00 12:30	1.50		POOH	01	P		POOH with 4 1/2" Casing workstring to 7 3/8" Over shot Remove Overshot from fish
	12:30 13:30	1.00		POOH	01	P		POOH with 10 Jnts of 4 1/2" fish (422.14') TOTAL RECOVERED 61 JNTS AND COLLAR (2583.75') Bottom collar was cracked and loose and remaining 587' of fish LIH NEW FT 2607.75'
	13:30 13:45	0.25		FISH	02	P		Make up 7 3/8" Overshot with 4 1/2" Grapple
	13:45 15:30	1.75		RIH	01	P		RIH with 7 3/8" Overshot and Latch onto fish @ 2607.75' FISH STUCK Pulling over to 65k
	15:30 16:45	1.25		FISH	02	P		Work tbg from 20k to 60k while waiting on wireline
	16:45 18:00	1.25		FISH	01	P		RIH with 1 11/16" Freepoint tool and log cut @ 3190' tool dropping out the end of casing Pipe has movement right above cut Attempt to twist off casing and couldn't POOH with FP tool
	18:00 18:30	0.50		LOC	01	P		Release overshot from fish
	18:30 19:00	0.50		WSI	01	P		RD DLD Wireline Secure well SDFN
19:00 0:00	5.00		WSI	01	P		WSIFN	
11/5/2021	0:00 7:00	7.00		WSI	01	P		WSI
	7:00 8:00	1.00		LOC	01	P		RD Floor ND BOP's Strip off Casing head RU Floor Prep to pull tbg
	8:00 9:00	1.00		POOH	01	P		POOH with 7 3/8" Overshot
	9:00 9:30	0.50		LOC	01	P		Redress overshot with 4 1/2" Grapple Switch over to 4 1/2' equipment Make up OSBHA
	9:30 12:00	2.50		RIH	01	P		RIH with OSBHA Latch onto fish @ 2607' SW 23k
	12:00 12:20	0.33		LOC	01	P		Work fish from 20k up to 90k Casing popped free SW 30k
	12:20 15:00	2.67		POOH	01	P		POOH with OS and recover 23 jnts and partial of casing Bottom of casing has partial cut with torn off piece Will need redressed

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Code	Sub	Class	MD from (ft)	Operation
11/8/2021	15:00 16:00	1.00		LOC	01	P		Install wellhead NU BOP's Secure well Clean up location
	16:00 0:00	8.00		WSI	01	P		WSIFN
	0:00 7:00	7.00		WSI	01	P		WSI
	7:00 8:00	1.00		LOC	01	P		RD Floor ND BOP's Strip off Casing head RU Floor
	8:00 9:15	1.25		LOC	01	P		Make up BHA bumper sub and dressing assembly. Strip on BOP's and RU floor
	9:15 10:45	1.50		RIH	01	P		RIH
	10:45 12:30	1.75		LOC	01	P		clean up fish top mill down 3" of casing prep for casing patch.
	12:30 13:00	0.50		LOC	02	P		Lunch break
	13:00 14:00	1.00		PUMP	04	P		circulate well bore with clena fluid.
	14:00 15:15	1.25		POOH	01	P		POOH .
	15:15 15:45	0.50		LOC	01	P		RD Floor ND BOP's Strip off Casing head RU Floor lay down BHA
15:45 16:00	0.25		LOC	01	P		Strip on BOP's secure well for the night.	
16:00 0:00	8.00		WSI	03	P		SDFN.	
11/9/2021	0:00 6:30	6.50		WSI	01	P		WSI awaiting operations
	6:30 7:00	0.50		LOC	01	P		Warm up equipment, safety meeting
	7:00 7:40	0.67		LOC	01	P		Make up BHA 5-3/4" casing patch 4-1/2" P110 casing string pull BOP's, pull tubing head
	7:40 11:30	3.83		RIH	01	P		RIH to tag fish top @ 3182' tag fish @ depth swallow 2' with patch pull test to 80K
	11:30 12:00	0.50		PUMP	01	P		Pressure test casing to 500psi, GOOD TEST
	12:00 12:45	0.75		WELL	01	P		land casing w/ 80Kpull to energize slips cut casing
	12:45 14:00	1.25		LOC	01	P		Install tubing head and nipple up BOP stack swap pipe wrangler and prep to run 2-3/8 tubing
	14:00 17:30	3.50		RIH	01	P		RIH and tag above TSBP @ 3872'. wash down to plugat 4050', pump bottoms up
17:30 18:00	0.50		POOH	01	P		POOH 5 stands and secure well for the night	
18:00 0:00	6.00		WSI	01	P		WSI	
11/10/2021	0:00 7:00	7.00		WSI	01	P		WSI 0/0/0
	7:00 8:00	1.00		RIH	01	P		RIH and latch onto TSBP @ 4050' Unset TSBP Trip in with 10 stands
	8:00 8:30	0.50		LOC	01	P		MIRU PRS scanners
	8:30 13:30	5.00		POOH	01	P		POOH scanning with 265 jnts L-80 Yellow 96 Blue 136 Red 33 33 total bad Internal pitting and bad pins No visual corrosion holes Hole Shot @ 6400' Tbg full of drilling mud from 6400 to EOT SV Stuck in seat nipple
	13:30 14:00	0.50		RDMO	01	P		RDMO Scanners Rinse mud off floor and tools
	14:00 14:30	0.50		MIRU	05	P		MIRU CK Hydrotesters (Tool OD 1.9")
	14:30 16:45	2.25		RIH	01	P		Hydrotest in hole with 180 jnts to 6000'
	16:45 17:00	0.25		WSI	01	P		Secure well Drain up SDFN
	17:00 0:00	7.00		WSI	01	P		WSIFN

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Code	Sub	Class	MD from (ft)	Operation
11/11/2021	0:00 7:00	7.00		WSI	01	P		WSI 0/0/0
	7:00 7:30	0.50		LOC	01	P		Unlock Rams Prep to run tbg
	7:30 10:00	2.50		RIH	01	P		Hydrotest in hole to Land depth @ 8402' with 265 jnts SN NC
	10:00 10:30	0.50		RDMO	01	P		RD CK hydrotesters RD Floor
	10:00 10:00	0.00		WELL	01	P		Land tbg on hanger @ 8402' Bleed off stack and check seal GOOD SEAL Hydrotest hanger connection GOOD TEST NOTE: 10K EXTERNAL CASING PATCH @ 3182'
	10:30 10:45	0.25		RDMO	01	P		ND BOP's NU Prod head
	10:45 11:30	0.75		RDMO	02	P		RDMO EWS 318 Clean up location
	11:30 12:00	0.50		LOC	01	P		Load equipment Build fence Final walk through NOTE: THERE WAS ALOT OF DRILLING MUD AROUND WELLHEAD DUE TO PULLING WET STRING. CLEANED UP AROUND WELL BAY THE BEST WE COULD AND TOUCHED BASE WITH CHUCK TO COME BACK WITH DIRT IF NEEDED.
	12:00 0:00	12.00		WSI	01	P		WSI BBLs to recover:250

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