

EP WELLS DAILY OPERATIONS REPORT

Report 1

04/24/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	1.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor			
Work Unit		Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	MICHAEL JOHNSON	Measured Depth(ft)	
Engineer	BOBBY RAMOS	TVD(ft)	
Other Supervisor		24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	6,402/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.00	LOT/FIT EMW(ppg)	
Daily Cost	6,402	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
5 JSA'S							
14 EE'S							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	5

Operations Summary

24 Hour Summary
HOOK UP FLOWBACK EQUIP., FRAC TREE INSTALLED YESTERDAY
Update Since Report Time
FLOWBACK IRON INSTALLED AND RESTRAINED, VALVES FUNCTION TESTED.
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 1

04/24/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
7:30	0.50					0		SAFETY MEETING JSA AND UNCAAP REVIEW, 12 LSR'S
8:00	9.00					0		FRAC TREE INSTALLED 4/23/2018, SPOT IN RIG UP FLOWBACK IRON ON 2" SIDE ONLY. INSTALL RESTRAINTS AND FUNCTION TEST RESTRAINTS.
Total	9.50							

EP WELLS DAILY OPERATIONS REPORT

Report 2

04/25/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	2.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor			
Work Unit		Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Ben Dickinson	Measured Depth(ft)	
Engineer	BOBBY RAMOS	TVD(ft)	
Other Supervisor		24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	37,007/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.01	LOT/FIT EMW(ppg)	
Daily Cost	30,605	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	1

Operations Summary

24 Hour Summary
Pressure test Frac Stack Lower and set 9 5/8" popoff ot 2200 psi. Standby, wait on 1003H DFIT
Update Since Report Time
24 Hour Forecast
Standby, wait on 1003H DFIT

EP WELLS DAILY OPERATIONS REPORT

Report 2

04/25/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	24.00					0		Standby
Total	24.00							

EP WELLS DAILY OPERATIONS REPORT

Report 3

04/26/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	3.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Ben Dickinson	Measured Depth(ft)	
Engineer	BOBBY RAMOS	TVD(ft)	
Other Supervisor		24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	44,128/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.01	LOT/FIT EMW(ppg)	
Daily Cost	7,103	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	2

Operations Summary

24 Hour Summary
Standby, wait on 1003H DFIT
Update Since Report Time
24 Hour Forecast
Standby, wait on 1003H DFIT

EP WELLS DAILY OPERATIONS REPORT

Report 3 04/26/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
Total								

EP WELLS DAILY OPERATIONS REPORT

Report 4

04/27/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	4.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Ben Dickinson	Measured Depth(ft)	
Engineer	BOBBY RAMOS	TVD(ft)	
Other Supervisor		24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	51,231/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.01	LOT/FIT EMW(ppg)	
Daily Cost	7,103	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	3

Operations Summary

24 Hour Summary
Standby, wait on 1003H DFIT
Update Since Report Time
24 Hour Forecast
Standby, wait on 1003H DFIT

EP WELLS DAILY OPERATIONS REPORT

Report 4 04/27/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary								
Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
Total								

EP WELLS DAILY OPERATIONS REPORT

Report 5

04/28/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	5.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Ben Dickinson	Measured Depth(ft)	
Engineer	BOBBY RAMOS	TVD(ft)	
Other Supervisor	Mike Harris	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	58,334/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.01	LOT/FIT EMW(ppg)	
Daily Cost	7,103	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	4

Operations Summary

24 Hour Summary
Standby, wait for 1003H DFIT
Update Since Report Time
24 Hour Forecast
Standby, wait for 1003H DFIT

EP WELLS DAILY OPERATIONS REPORT

Report 5 04/28/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
Total								

EP WELLS DAILY OPERATIONS REPORT

Report 6

04/29/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	6.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor		Measured Depth(ft)	
Engineer	BOBBY RAMOS	TVD(ft)	
Other Supervisor		24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	65,438/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.02	LOT/FIT EMW(ppg)	
Daily Cost	7,103	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	5

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 6 04/29/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
Total								

EP WELLS DAILY OPERATIONS REPORT

Report 8

05/07/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	8.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Wes Garver	Measured Depth(ft)	
Engineer	BOBBY RAMOS	TVD(ft)	
Other Supervisor		24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	81,627/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.02	LOT/FIT EMW(ppg)	
Daily Cost	8,359	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
Total man hours:52							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	7

Operations Summary

24 Hour Summary
RU 3" FB
Update Since Report Time
Finish rigging up 3" FB and test.
24 Hour Forecast
Move in OSR and Safety trailer.

EP WELLS DAILY OPERATIONS REPORT

Report 8

05/07/2018

Well UNIVERSITY 20 PW UNIT 1007H
 Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	8.00					0		Shut down for evening, come back in morning to finish RU.
8:00	0.25					0		Safety meeting, discuss UnCAAP, 4 focus area's and stop the job authority.
8:15	3.75					0		Continue to RU 3" FB, spot in test unit and prep for PT.
12:00	2.50					0		Pause to discuss PT equipment. Discuss line of fire, good communication, valve alignment, stop the job authority and staying hydrated. Walk lines, align valves and load 3" flowback lines and PT. Low 500 psi, hold for 5 min, test good. High 9800 psi, hold for 10 min, test good. Bleed down pressure. RD test equipment. Secure all wells.
14:30	9.50					0		Leave location.
Total	24.00							

EP WELLS DAILY OPERATIONS REPORT

Report 9

05/08/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	9.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Wes Garver	Measured Depth(ft)	
Engineer	BOBBY RAMOS	TVD(ft)	
Other Supervisor		24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	88,730/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.02	LOT/FIT EMW(ppg)	
Daily Cost	7,103	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
Total man hours: 30							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	8

Operations Summary

24 Hour Summary
Wait for pump trucks for toe preps
Update Since Report Time
MIRU Stallion trailers
24 Hour Forecast
MIRU Pump trucks for toe preps

EP WELLS DAILY OPERATIONS REPORT

Report 9

05/08/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	8.00					0		Well secure, wait for pump trucks for toe preps
8:00	4.00					0		Wait on stallion for trailers
12:00	4.50					0		MIRU Safety trailer
16:30	2.50					0		RU OSR trailer
19:00	5.00					0		Leave location.
Total	24.00							

EP WELLS DAILY OPERATIONS REPORT

Report 10

05/11/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	10.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	MICHAEL JOHNSON	Measured Depth(ft)	
Engineer	BOBBY RAMOS	TVD(ft)	
Other Supervisor		24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	104,295/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.02	LOT/FIT EMW(ppg)	
Daily Cost	15,530	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
<div>Safety Comments:</div> <div>3 JSA'S 2 SAFEWORK PERMITS 9 EE'S</div>							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	3
Last BOP function test			Days Since Last Drill	9
Last BOP Test				
Next BOP Test				

Operations Summary

24 Hour Summary
OPEN AND ACIDIZE TOE SLEEVE
Update Since Report Time
TOE SLEEVE OPENED AND ACIDIZED,
24 Hour Forecast
WAIT ON ADJACENT WELL OPERATIONS AND INSTALL REMAINDER OF FRAC TREE.

EP WELLS DAILY OPERATIONS REPORT

Report 10

05/11/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
6:30	0.50					0		SAFETY MEETING, UNCAAP AND JSA REVIEW
7:00	1.25					0		PREPARE LOCATION AND EQUIP.,
8:15						0		OPEN WELL ZERO PSI., ZERO PSI ON 9 5/8" X 7" ANNULUS. PRESSURE WELL TO 5700 PSI. AND HOLD FOR 15 MIN., PRESSURE TO 9500 PSI., SLEEVE OPENED FTER 12 MIN. STABLE AT 5575 PSI. START INJ. AT 2 BPM., BROKE AT 8200 PSI. INCREASE RATE TO 3 BPM ,AT 7300 PSI PUMP 24 BBLS. ACID AND DISPLACE W/ 567 BBLS. FRESH WATER, MAX. RATE 3.7 BPM AT 7500 PSI., ACID ON SLEEVE , PRESSURE DROPPED TO 6800 PSI. INCREASE RATE TO 9.1 BPM AT 8250 PSI. OVER DISPLACE W/ 250 BBLS. FRESH WATER. ISIP 5800 PSI., 5 MIN. SI 5500 PSI., 10 MIN. SI 5471 PSI., AND 10 MIN. SI AT 5456 PSI. SI AND SECURE WELL
Total	1.75							

EP WELLS DAILY OPERATIONS REPORT

Report 11

05/13/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	11.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	MICHAEL JOHNSON	Measured Depth(ft)	
Engineer	BOBBY RAMOS	TVD(ft)	
Other Supervisor		24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	116,752/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.03	LOT/FIT EMW(ppg)	
Daily Cost	12,456	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
4 JSA'S 3 SAFEWORK PERMITS 9 EE'S							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	4
Last BOP function test			Days Since Last Drill	10
Last BOP Test				
Next BOP Test				

Operations Summary

24 Hour Summary
RIG UP FRAC TREE AND ZIPPER MANIFOLD
Update Since Report Time
FRAC TREE RIGGED UP AND TESTED, ZIPPER MANIFOLD SET
24 Hour Forecast
READY FOR FRAC.

EP WELLS DAILY OPERATIONS REPORT

Report 11

05/13/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
6:30	0.50					0		SAFETY MEETING, UNCAAP REVIEW, JSA REVIEW AND FOCUS POINT REVIEW
7:00	7.00					0		RIG UP FRAC TREE AND ZIPPER MANIFOLD
14:00	1.00					0		PRESSURE TEST TREE 500 PSI. LOW AND 10,000PSI. HIGH
Total	8.50							

EP WELLS DAILY OPERATIONS REPORT

Report 12

05/14/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	12.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Andrew Veroba	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	M. Hank Persaud	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	132,355/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.03	LOT/FIT EMW(ppg)	
Daily Cost	15,603	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
Total hours: 604							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	11

Operations Summary

24 Hour Summary
MIRU frac
Update Since Report Time
24 Hour Forecast
MIRU frac

EP WELLS DAILY OPERATIONS REPORT

Report 12

05/14/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
13:00	11.00	FRAC	RIF			0		MIRU frac.
Total	11.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00		FRAC	RIF			0	MIRU frac.

EP WELLS DAILY OPERATIONS REPORT

Report 13

05/15/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	13.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Andrew Veroba	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	M. Hank Persaud	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	149,830/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.03	LOT/FIT EMW(ppg)	
Daily Cost	16,539	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
Total hours:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	12

Operations Summary

24 Hour Summary
MIRU frac.
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 13

05/15/2018

Well UNIVERSITY 20 PW UNIT 1007H
 Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.00	FRAC	RIF			0		MIRU frac.
6:00	4.00	FRAC	RIF			0		Restrain lines. Hange risers to wellheads.
10:00	5.50	FRAC	RIF			0		Continue hanging risers, building bleed off/pop off lines and restraining same. Spot wireline PCE and maintenance trailer. Wireline unit not on location. Different unit mobilized due to jacket issues on wireline. Walk the lines against P&ID.
15:30	1.50	FRAC	RIF			0		Done hanging risers. Handover manlift to restraint crew and hang restraints. MIRU wireline PCE and equipment.
17:00		FRAC	RIF			0		Witness wireline BOP function test. Function test good. Continue restraining risers to zipper and well. Spot in wireline truck.
Total	17.00							

EP WELLS DAILY OPERATIONS REPORT

Report 14

05/16/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	14.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Andrew Veroba / Jeremy Harp	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	M. Hank Persaud	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	187,235/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.04	LOT/FIT EMW(ppg)	
Daily Cost	37,064	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
Total hours: 1360							

Drills

Drill Category	Drill Type	Detection (sec)	Complete (sec)	Crew drilled	Pass / Fail	PIC	Comments
HSE Drills	Muster Drill	2.00	192.00	Day	Fail	Andrew Veroba	Headcount incorrect and

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP function test			Days Since Last Drill	13
Last BOP Test				
Next BOP Test				

Operations Summary

24 Hour Summary
Frac stage 1
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 14 05/16/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Continue frac ops

EP WELLS DAILY OPERATIONS REPORT

Report 14

05/16/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	3.00	FRAC	RIF			0		<p>Prime pumps. Black RigLock (RL) is non-functional. ND. NU other two RL on 1007 and 1002. FMC contuing to rig in remote greasing package. Check valve alignment. Check pressures:</p> <p>1007H: 4650 casing, 180 annulus 1002H: 4500 casing, 110 annulus 1003H: 4250 casing, 90 annulus 1004H: 4650 casing, 210 annulus</p>
3:00	3.00	FRAC	RIF			0		<p>Open all zipper valves. Fill stacks. Attempt to pressure test. Fix surface leaks. Attempt to pressure test - cannot exceed 5000 psi. Change out frac bleed off valves. Same issue. Note leak on 1004H night cap. Isolate 1003H & 1004H. Same issue. Close zipper. Good test on pump side iron. Open zipper to 1002H and experience the same issue. Close LMV and test good. Grease UMW.</p>
6:00	2.75	FRAC	RIF			0		<p>Crew change. Verify/perform Walk the line and align valves. Pressure test 1007H, 1002H, 1003H, 1004H wells up to 9500 psi for 10 min.</p>
8:45	0.67	FRAC	SAF			0		<p>Held muster drill. Held AAR, noted deficiencies and held AAR. Reviewed operational plan will all personnel. Went back to stations for final check. Equalized and open well.</p>
9:25	3.62	FRAC	FRT			0		<p>University 20 PW Unit 1007H Stage 1 Summary</p> <p>Interval 20455 - 20458</p> <p>Open Well Pressure 4,418 psi Max Treating Pressure 9,348 psi Max Slurry Rate 58.4 bpm Average Treating Pressure 8,720 psi Average Slurry Rate 36.3 bpm Breakdown Pressure 9,121 psi Breakdown Rate 13 bpm Breakdown Volume 282 gal Avg HHP 7,758 hp Final ISIP 5,501 psi Frac Gradient 0.890 psi/ft Pad Volume 27,384 gal Main Body Volume 191,852 gal Flush Volume 31,038 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 40,500 lbs 100 M White Sand Pumped 67,570 lbs Proppant in Formation 108,070 lbs Avg Proppant Concentration 0.93 lb/gal Max Proppant Concentration 1.25 lb/gal Load to Recover (incl. pumpdown) 4,568 bbls Load to Recover w/o Acid 4,556 bbls 15% HCL Spearhead 507 gal Slickwater Fluid Pumped 4,476 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 0 bbls Pump down rate 0.0 bpm Max pump down pressure 0 psi Fluid Temp 72.0 ?F Total Pump Time 3:34 hr:min Pumps Lost During Job 0 Treatment Start Time 9:21 9:55 0:00 Treatment End Time 9:48 13:02 0:00</p> <p>-Proppant was pumped as steps of 0.50, 1.00, 1.25, 1.50, 1.75, & 2.00 PPA. - Pumped 2 - 250 gal shot of 15% HCl.</p>

EP WELLS DAILY OPERATIONS REPORT

Report 14

05/16/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- Two 20# Gel sweep were pumped prior to flush. - After pumping 235 Bbls into the stage, operations were shut down while repairs were made to blender. Time for Prop on Perfs 0.1 minutes Time between Stages (TBF) N/A hrs/min
13:02	1.48	FRAC	FWL			0		13:10 Handover well to wireline. Pick up lubricator, stab on BOP c/w tool trap. Stab on stinger. Lay out, check fire and connect perforating BHA. Pick up toolstring. Disconnect re-entry guide and stab on well. 13:10 Pressure test lubricator to for 5 min low and 10 min high to max 8000 psi. 14:31 Open well with 4750 psi.
14:31		FRAC	WLT			0		200 ft switch check did not pass. POOH and investigate.
Total	14.52							

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
05/16/2018 14:31				WLT	EN		0.00	0.00		
Description: 200 ft switch checks failed.						Title: 200 ft switch check				
Total							0.00	0.00		

EP WELLS DAILY OPERATIONS REPORT

Report 15

05/17/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	15.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Andrew Veroba / Jeremy Harp	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	M. Hank Persaud	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	6.50/36.11	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	205,030/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.05	LOT/FIT EMW(ppg)	
Daily Cost	16,566	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	14

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 15

05/17/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	3.75	FRAC	WLT			1		Troubleshoot depth inconsistency. Change depth wheel. Troubleshoot encoder.
3:45	0.25	FRAC	WLT			0		Tie in. Prep to pump down.
4:00	0.75	FRAC	WLT			1		Attempt to pump down. Pump down trucks having issues. Restart twice. Pump down pump won't pump. Line up fleet to pump down - equalize.
4:45	3.03	FRAC	WLT			0		Pump down with the fleet. 5:30 "Stage #2 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball drop frac plug. Set plug @ 20425' Perforate as follows: 20405' - 20406' 20360' - 20361' 20315' - 20316' 20270' - 20271' Stabilized pressure after perf.: 4950 psi Maximum pump down rate: 8 bpm Pump down volume: 402 bbl" 5:35 POOH
7:47	0.22	FRAC	WLT			0		7:47 Shut in well with 4200 psi.
8:00	2.00	FRAC	WLT			1		Anchor truck on location. Position 2 x anchors for wireline lower sheave.
10:00	0.42	FRAC	WLT			0		Other pad operations. 10:25 Handover well to frac.
10:25	3.00	FRAC	FRT			0		University 20 PW Unit 1007H Stage 2 Summary Interval 20270 - 20406 Open Well Pressure 3,919 psi Max Treating Pressure 9,316 psi Max Slurry Rate 61.4 bpm Average Treating Pressure 8,418 psi Average Slurry Rate 53.8 bpm Breakdown Pressure 6,729 psi Breakdown Rate 5 bpm Breakdown Volume 1 gal Avg HHP 11,100 hp Final ISIP 5,205 psi Frac Gradient 0.866 psi/ft Pad Volume 30,030 gal Main Body Volume 288,032 gal Flush Volume 30,912 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 173,420 lbs 100 M White Sand Pumped 256,440 lbs Proppant in Formation 429,860 lbs Avg Proppant Concentration 1.97 lb/gal Max Proppant Concentration 3.00 lb/gal Load to Recover (incl. pumpdown) 7,260 bbls Load to Recover w/o Acid 7,248 bbls 15% HCL Spearhead 510 gal Slickwater Fluid Pumped 6,766 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 402 bbls Pump down rate 8.0 bpm Max pump down pressure 6,060 psi Fluid Temp 72.0 °F Total Pump Time 2:54 hr:min Pumps Lost During Job 0

EP WELLS DAILY OPERATIONS REPORT

Report 15

05/17/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Treatment Start Time 10:31 0:00 0:00 Treatment End Time 13:25 0:00 0:00 -Proppant was pumped as steps of 0.50, 1.00, 1.50, 2.00, 2.50, & 3.00 PPA. - Pumped 2 - 250 gal shots of 15% HCl. - Two 20# Gel sweeps were pumped prior to flush. - We shut down after seating the ball and establishing injection while wireline repositioned equipment. Time for Prop on Perfs 83.0 minutes Time between Stages (TBF) 13:37 hrs/min
13:25	4.58	FRAC	FWL			0		Wait on concurrent operations.
18:00		FRAC	FWL			0		Pressure test lubricator to 8000 psi.
Total	18.00							

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
05/17/2018 00:00	KEANE FRAC LP	Perforation		WLT	EN	Elect W/L Surface Equipment		3.75	1	OPEN
Description: Troubleshoot and replace equipment components.						Title: WL Depth Control Issue				
05/17/2018 04:00	KEANE FRAC LP	Perforation		WLT	EN	Frac Pump		0.75	1	OPEN
Description: One of two pump down pumps inoperable. Swap to frac spread.						Title: Pump Down Pump Down				
05/17/2018 08:00	SHELL OIL COMPANY	Perforation	0.00	WLT	N			2.00	1	OPEN
Description: 4 wells with 30 ft spacing on location. Position 2 x anchors. Previous anchor placement out of alignment. Not able to reposition at rig up due to 48 hour onecall expiration. Note: Greaseless wireline in use and only allows for 3.5 degrees of deflection coming off sheave.						Title: Spot achors for wireline.				
Total								6.50		

EP WELLS DAILY OPERATIONS REPORT

Report 16

05/18/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	16.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Andrew Veroba / Jeremy Harp	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	M. Hank Persaud	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	6.33/100.00	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	294,293/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.07	LOT/FIT EMW(ppg)	
Daily Cost	16,566	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
Total hours: 1380							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	15

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 16

05/18/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.25	FRAC	FWL			1		Shut in well with 4150.
0:15	2.25	FRAC	FWL			1		LD tools. LD lub. Open PCE and investigate (OSR witnessed). Waiting on the official failure report.
2:30	1.25	FRAC	FWL			1		Waiting on parts.
3:45	2.58	FRAC	FRT			1		<p>Hydromill plug. Indications soft, but final result good.</p> <p>University 20 PW Unit 1007H Stage 3 Hydro Mill Summary</p> <p>Interval #N/A</p> <p>Open Well Pressure 3,885 psi</p> <p>Max Treating Pressure 9,207 psi</p> <p>Max Slurry Rate 58.0 bpm</p> <p>Average Treating Pressure 8,434 psi</p> <p>Average Slurry Rate 28.4 bpm</p> <p>Breakdown Pressure 8,671 psi</p> <p>Breakdown Rate 24 bpm</p> <p>Breakdown Volume 33 gal</p> <p>Avg HHP 5,871 hp</p> <p>Final ISIP 5,506 psi</p> <p>Frac Gradient 0.891 psi/ft</p> <p>Pad Volume 6,720 gal</p> <p>Main Body Volume 178,118 gal</p> <p>Flush Volume 29,526 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 41,000 lbs</p> <p>100 M White Sand Pumped 41,940 lbs</p> <p>Proppant in Formation 82,940 lbs</p> <p>Avg Proppant Concentration 0.61 lb/gal</p> <p>Max Proppant Concentration 1.00 lb/gal</p> <p>Load to Recover (incl. pumpdown) 4,241 bbls</p> <p>Load to Recover w/o Acid 4,229 bbls</p> <p>15% HCL Spearhead 495 gal</p> <p>Slickwater Fluid Pumped 4,149 bbls</p> <p>20# Linear Fluid Pumped 80 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 0 bbls</p> <p>Pump down rate 0.0 bpm</p> <p>Max pump down pressure 0 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 2:24 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 3:54 0:00 0:00</p> <p>Treatment End Time 6:18 0:00 0:00</p> <p>-Proppant was pumped as steps of 0.25, 0.50, 0.75, & 1.00 PPA</p> <p>- Pumped 1 - 500 gal shot of 15% HCL.</p> <p>- Two 20# Gel sweeps were pumped prior to flush.</p> <p>- WL lost the plug at approximately 14,828 ft.</p> <p>Time for Prop on Perfs 48.0 minutes</p> <p>Time between Stages (TBF) 0:15 hrs/min</p>
Total	6.33							

EP WELLS DAILY OPERATIONS REPORT

Report 17

05/19/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	17.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Andrew Veroba / Jeremy Harp	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	M. Hank Persaud	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	1.58/6.60	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	429,688/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.10	LOT/FIT EMW(ppg)	
Daily Cost	87,629	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
Total hours: 1282							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	16

Operations Summary

24 Hour Summary
Frac stage 3
Update Since Report Time
Other pad ops
24 Hour Forecast
WL stage 4

EP WELLS DAILY OPERATIONS REPORT

Report 17

05/19/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	FRAC	WLT			0		POOH.
1:00	0.33	FRAC	WLT			1		Wireline sanding line.
1:20	2.42	FRAC	WLT			0		POOH.
3:45	1.25	FRAC	WLT			1		Shut in well 4150. LD lubricator to replace elements after only 2 runs.
5:00	9.35	FRAC	WLT			0		Other pad ops.
14:21	0.38	FRAC	FRT			0		1007H Stage 3 Lateral volume flush - 187 Bbls open time 14:21 Close in time 14:44 open psi 3790 Shut in psi 5555 Total Bbls 649 Max psi 9114 ISIP 5781 Avg psi 8166 Chemicals Max Rate 56.2 Bio 9.4 gal Avg Rate 34.5 Scale 7.9 gal FR 46 gal Gel FWB -100D Acid These fluid volumes will be added to end of stage totals for 1007H
14:44	0.42	FRAC	FWL			0		Pressure test to 7500 psi Open well with 4800 psi.
15:09	4.18	FRAC	WLT			0		16:55 "Stage #3 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball drop frac plug. Set plug @ 20250' Perforate as follows: 20225' - 20226' 20180' - 20181' 20135' - 20136' 20090' - 20091' Stabilized pressure after perf.: 4755 psi Maximum pump down rate: 9 bpm Pump down volume: 366 bbl" 16:58 POOH
19:20	0.17	FRAC	WLF			0		19:20 Shut in well with 4300 psi. 19:30 Handover well to frac.
19:30	3.00	FRAC	FRT			0		University 20 PW Unit 1007H Stage 3 Summary Interval 20090 - 20226 Open Well Pressure 4,154 psi Max Treating Pressure 8,772 psi Max Slurry Rate 55.4 bpm Average Treating Pressure 8,461 psi Average Slurry Rate 49.0 bpm Breakdown Pressure 7,777 psi Breakdown Rate 10 bpm Breakdown Volume 467 gal Avg HHP 10,161 hp Final ISIP 5,127 psi Frac Gradient 0.859 psi/ft Pad Volume 22,386 gal Main Body Volume 278,844 gal Flush Volume 29,862 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 283,910 lbs 100 M White Sand Pumped 126,240 lbs Proppant in Formation 410,150 lbs Avg Proppant Concentration 1.88 lb/gal Max Proppant Concentration 3.00 lb/gal Load to Recover (incl. pumpdown) 9,321 bbls

EP WELLS DAILY OPERATIONS REPORT

Report 17

05/19/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Load to Recover w/o Acid 9,315 bbls 15% HCL Spearhead 254 gal Slickwater Fluid Pumped 6,593 bbls 20# Linear Fluid Pumped 40 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 2,682 bbls Pump down rate 9.0 bpm Max pump down pressure 6,119 psi Fluid Temp 72.0 ?F Total Pump Time 2:47 hr:min Pumps Lost During Job 1 Treatment Start Time 19:36 0:00 0:00 Treatment End Time 22:23 0:00 0:00 -Proppant was pumped in steps from 0.50 PPA to 3.00 PPA in 0.50 PPA increments. - Pumped 1 - 250 gal shot of 15% HCL. - Two 20# gel sweeps were pumped prior to flush. - Pumpdown volume of 366 bbl was added to the dummy plug pumpdown volume of 284 bbl. - Volumes from the the wellbore and lateral flushes will be added onto the pumpdown volume, 2032 bbls. Also, the chemical volumes from the flushes will be added onto this ticket. Time for Prop on Perfs 52.0 minutes Time between Stages (TBF) 54:11 hrs/min
22:30	1.50	FRAC	FWL			0		Other pad ops.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	4.00	FRAC	FWL			0	Other pad ops.
4:00		FRAC	FWL			0	

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
05/19/2018 01:00	KEANE FRAC LP	Perforation		WLT	EN	Elect W/line Perforating Equip	0.33	0.33	1	OPEN
Description: Sanding the line due to damage						Title: Wireline issues				
05/19/2018 03:45	KEANE FRAC LP	Perforation		WLT	EN		1.25	1.25	1	
Description: Replacing packoff elements prematurely						Title: Replacing packoff elements prematurely				
Total							1.58	1.58		

EP WELLS DAILY OPERATIONS REPORT

Report 18

05/20/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	18.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Andrew Veroba / Jeremy Harp	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	M. Hank Persaud	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	1.83/7.64	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	456,517/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.11	LOT/FIT EMW(ppg)	
Daily Cost	22,566	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
Total hours: 1298							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	17

Operations Summary

24 Hour Summary
Wireline stage 4
Update Since Report Time
24 Hour Forecast
Other pad ops

EP WELLS DAILY OPERATIONS REPORT

Report 18

05/20/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	4.00	FRAC	FWL			0		Other pad ops.
4:00	0.33	FRAC	FWL			0		4:00 Handover well to wireline. 4:15 Pressure test lubricator to 8000 psi. 4:20 Open well with 3800 psi.
4:20	3.17	FRAC	WLT			0		4:20 Open well with 3800 psi. 6:00 "Stage #4 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball drop frac plug. Set plug @ 20067' Perforate as follows: 20042' - 20043' 20000' - 20001' 19955' - 19956' 19908' - 19909' Stabilized pressure after perf.: 4150 psi Maximum pump down rate: 9 bpm Pump down volume: 279 bbl" 6:05 POOH 7:30 Shut in well with 3850 psi. 9:20 Handover well to frac. *** Did not drop ball
7:30	1.83	FRAC	WLF			1		***NPT Weather*** High winds, unable to LD lubricator ***END NPT Weather***
9:20	0.67	FRAC	WLF			0		LD WL tools and lubricator.
10:00	14.00	FRAC	WLF			0		Other pad operations.
Total	24.00							

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
05/20/2018 07:30	SHELL	Wait On Weather		WLF	N		1.83	1.83	1	OPEN
Description: High winds, not able to LD lubricator and continue with crane operations with						Title: NPT Weather				
Total							1.83	1.83		

EP WELLS DAILY OPERATIONS REPORT

Report 19

05/21/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	19.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Andrew Veroba / Jeremy Harp	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	M. Hank Persaud	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	473,443/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.11	LOT/FIT EMW(ppg)	
Daily Cost	16,566	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
Total hours: 1556							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	18

Operations Summary

24 Hour Summary
Other pad ops
Update Since Report Time
24 Hour Forecast
Other pad ops

EP WELLS DAILY OPERATIONS REPORT

Report 19

05/21/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	24.00	FRAC	WLF			0		Other pad operations.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	24.00	FRAC	WLF			0	Other pad operations.

EP WELLS DAILY OPERATIONS REPORT

Report 20

05/22/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	20.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Andrew Veroba / Jeremy Harp	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	M. Hank Persaud	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	528,377/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.12	LOT/FIT EMW(ppg)	
Daily Cost	16,566	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
Total hours:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	19

Operations Summary

24 Hour Summary
Other pad ops
Update Since Report Time
24 Hour Forecast
Other pad ops

EP WELLS DAILY OPERATIONS REPORT

Report 20 05/22/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	24.00	FRAC	WLF			0		Other pad operations.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	24.00	FRAC	WLF			0	Other pad operations.

EP WELLS DAILY OPERATIONS REPORT

Report 21

05/23/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	21.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	John Bevans	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	545,211/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.13	LOT/FIT EMW(ppg)	
Daily Cost	16,834	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
Total hours: 1616							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	20

Operations Summary

24 Hour Summary
Wait on other pad ops
Update Since Report Time
24 Hour Forecast
Other pad ops

EP WELLS DAILY OPERATIONS REPORT

Report 21 05/23/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	24.00	FRAC	WLF			0		Other pad operations.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00		FRAC	WLF			0	Other pad operations.

EP WELLS DAILY OPERATIONS REPORT

Report 22

05/24/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	22.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	John Bevans	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	564,717/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.13	LOT/FIT EMW(ppg)	
Daily Cost	16,566	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
Total hours:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	21

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 22 05/24/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary								
Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00		FRAC	WLF			0		Other pad operations.
Total								

EP WELLS DAILY OPERATIONS REPORT

Report 23

05/25/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	23.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	John Bevans	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	589,774/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.14	LOT/FIT EMW(ppg)	
Daily Cost	16,566	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	22

Operations Summary

24 Hour Summary
Wait on other pad ops
Update Since Report Time
24 Hour Forecast
Resume Frac ops

EP WELLS DAILY OPERATIONS REPORT

Report 23

05/25/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	24.00	FRAC	WLF			0		Other pad operations.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.90	FRAC	WLF			0	Other pad operations.
1:54	0.77	FRAC	FRP			0	Prime and pressure test for frac. Find leak on line at pump 2. Repair leak and re-test to 9500 psi. Good test. Bled off all pressure.
2:40	1.22	FRAC	FRP			0	Drop ball. Wait on other pad ops.
3:53		FRAC	FRT			0	Open well with 2707 psi. Begin Stage 4 Frac.

EP WELLS DAILY OPERATIONS REPORT

Report 24

05/26/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	24.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	John Bevans	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	666,682/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.15	LOT/FIT EMW(ppg)	
Daily Cost	76,649	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	23

Operations Summary

24 Hour Summary
Frac Stage 4
Update Since Report Time
24 Hour Forecast
Continue Frac ops

EP WELLS DAILY OPERATIONS REPORT

Report 24

05/26/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.90	FRAC	WLF			0		Other pad operations.
1:54	0.77	FRAC	FRP			0		Prime and pressure test for frac. Find leak on line at pump 2. Repair leak and re-test to 9500 psi. Good test. Bled off all pressure.
2:40	1.22	FRAC	FRP			0		Drop ball. Wait on other pad ops.
3:53	2.40	FRAC	FRT			0		<p>University 20 PW Unit 1007H Stage 4 Summary</p> <p>Interval 19910 - 20046</p> <p>Open Well Pressure 2,646 psi</p> <p>Max Treating Pressure 9,123 psi</p> <p>Max Slurry Rate 55.6 bpm</p> <p>Average Treating Pressure 8,724 psi</p> <p>Average Slurry Rate 52.1 bpm</p> <p>Breakdown Pressure 7,293 psi</p> <p>Breakdown Rate 10 bpm</p> <p>Breakdown Volume 486 gal</p> <p>Avg HHP 11,140 hp</p> <p>Final ISIP 5,375 psi</p> <p>Frac Gradient 0.880 psi/ft</p> <p>Pad Volume 21,462 gal</p> <p>Main Body Volume 239,371 gal</p> <p>Flush Volume 29,736 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 279,500 lbs</p> <p>100 M White Sand Pumped 127,480 lbs</p> <p>Proppant in Formation 406,980 lbs</p> <p>Avg Proppant Concentration 2.19 lb/gal</p> <p>Max Proppant Concentration 3.00 lb/gal</p> <p>Load to Recover (incl. pumpdown) 5,978 bbls</p> <p>Load to Recover w/o Acid 5,967 bbls</p> <p>15% HCL Spearhead 495 gal</p> <p>Slickwater Fluid Pumped 5,699 bbls</p> <p>20# Linear Fluid Pumped 0 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 279 bbls</p> <p>Pump down rate 9.0 bpm</p> <p>Max pump down pressure 6,067 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 2:23 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 3:54 0:00 0:00</p> <p>Treatment End Time 6:17 0:00 0:00</p> <p>- Proppant was pumped as a ramp from 0.50 PPA to 2.00 PPA, then as a hold of 2.00 PPA, 2.50 PPA, and 3.00PPA.</p> <p>- No Gel was pumped during this stage.</p> <p>- 1 shot of 500 gallon acid was pumped during the stage</p> <p>-A flush was pumped and chemicals were primed prior to stage, volumes included on this ticket</p> <p>Time for Prop on Perfs 47.0 minutes</p> <p>Time between Stages (TBF) 3:53 hrs/min</p>
6:17	6.07	FRAC	FWL			0		See NPT on Keane WL on 1002 H well/ waiting on other pad ops.
12:21	11.65	FRAC	FWL			0		Wait on other pad ops
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
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EP WELLS DAILY OPERATIONS REPORT

Report 24 05/26/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	2.47	FRAC	FWL			0	Wait on other pad ops
2:28	0.10	FRAC	FWL			0	PU wireline tools.
2:34	0.07	FRAC	FWL			0	Stab lubricator.
2:38	0.27	FRAC	FWL			0	Fill and pressure test lubricator to 4500 psi. Good test.
2:54		FRAC	WLT			0	

EP WELLS DAILY OPERATIONS REPORT

Report 25

05/27/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	25.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	John Bevans / Ephraim Hathaway	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	830,216/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.19	LOT/FIT EMW(ppg)	
Daily Cost	159,675	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	24

Operations Summary

24 Hour Summary
Frac Stages 5-6
Update Since Report Time
24 Hour Forecast
Continue Frac ops

EP WELLS DAILY OPERATIONS REPORT

Report 25

05/27/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.47	FRAC	FWL			0		Wait on other pad ops
2:28	0.10	FRAC	FWL			0		PU wireline tools.
2:34	0.07	FRAC	FWL			0		Stab lubricator.
2:38	0.27	FRAC	FWL			0		Fill and pressure test lubricator to 4500 psi. Good test.
2:54	1.77	FRAC	WLT			0		<p>Stage #5 Plug and Perf</p> <p>Open well with 3200 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite "Ball In Place" frac plug. Tie into liner top @ 11486'. Bring on pumps at 11,700". Pump down as follows:</p> <p>3 bpm @ 3300 psi at 11,700'</p> <p>6 bpm @ 3400 psi at 11,800'</p> <p>7 bpm @ 4800 psi at 12,600'</p> <p>8 bpm @ 5700 psi at 14,600'</p> <p>9 bpm @ 6100 psi at 15,300'</p> <p>10 bpm @ 6100 psi at 15,900'</p> <p>Max rate: 10 bpm. Max pressure: 6500 psi</p> <p>Set plug @ 19890 ft w/ 2 bpm pumping</p> <p>Perforate as follows:</p> <p>19865' - 19866'</p> <p>19820' - 19821'</p> <p>19775' - 19776'</p> <p>19730' - 19731'</p> <p>Stabilized pressure before perforating: 5200 psi</p> <p>Stabilized pressure after perforating: 5000 psi</p> <p>Pump down volume: 349 bbls</p>
4:40	1.62	FRAC	WLT			0		POOH with Wireline.
6:17	0.63	FRAC	WLF			0		Shut in Wireline @ 4690 psi. Pressure test frac.
6:55	1.92	FRAC	FRT			0		<p>University 20 PW Unit 1007H Stage 5 Summary</p> <p>Interval 19730 - 19866</p> <p>Open Well Pressure 4,603 psi</p> <p>Max Treating Pressure 9,189 psi</p> <p>Max Slurry Rate 56.3 bpm</p> <p>Average Treating Pressure 8,763 psi</p> <p>Average Slurry Rate 47.7 bpm</p> <p>Breakdown Pressure 0 psi</p> <p>Breakdown Rate 0 bpm</p> <p>Breakdown Volume 0 gal</p> <p>Avg HHP 10,245 hp</p> <p>Final ISIP 5,509 psi</p> <p>Frac Gradient 0.891 psi/ft</p> <p>Pad Volume 1,218 gal</p> <p>Main Body Volume 208,614 gal</p> <p>Flush Volume 29,610 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 250,900 lbs</p> <p>100 M White Sand Pumped 172,430 lbs</p> <p>Proppant in Formation 423,330 lbs</p> <p>Avg Proppant Concentration 2.42 lb/gal</p> <p>Max Proppant Concentration 3.50 lb/gal</p> <p>Load to Recover (incl. pumpdown) 5,316 bbls</p> <p>Load to Recover w/o Acid 5,310 bbls</p> <p>15% HCL Spearhead 261 gal</p> <p>Slickwater Fluid Pumped 4,967 bbls</p> <p>20# Linear Fluid Pumped 0 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 349 bbls</p>

EP WELLS DAILY OPERATIONS REPORT

Report 25

05/27/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Pump down rate 10.0 bpm Max pump down pressure 6,500 psi Fluid Temp 72.0 °F Total Pump Time 1:57 hr:min Pumps Lost During Job 0 Treatment Start Time 6:53 0:00 0:00 Treatment End Time 8:50 0:00 0:00 - Proppant was pumped as a ramp from 0.50 PPA to 2.50 PPA, then as a hold of 2.50 PPA, 3.0 PPA, and 3.50PPA. - No Gel was pumped during this stage. - 1 shot of 250 gallon acid was pumped during the stage Time for Prop on Perfs 26.0 minutes Time between Stages (TBF) 2:01 hrs/min
8:50	1.17	FRAC	FWL			0		Shut in frac. Wait on other ops.
10:00	1.00	FRAC	FWL			0		Lay down lub. Switch greaseless line's packoff.
11:00	0.12	FRAC	FWL			0		Pressure test lubricator to 8000 psi. Open well with 4250 psi.
11:07	3.55	FRAC	WLT			0		Stage #6 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 19695' - 15' high due to pump-down Perforate as follows: 19679' - 19680' - 6' high due to pump-down 19640' - 19641' 19596' - 19597' 19550' - 19551' Stabilized pressure after perf.: 5006 psi Maximum pump down rate: 10.5 bpm Pump down volume: 301 bbl POOH @ 12:35. Mic line every 500' while POOH.
14:40	2.08	FRAC	GRS			0		Waiting on other pad operations. Grease valves.
16:45	0.12	FRAC	WLF			0		Pressure test frac.
16:52	1.95	FRAC	FRT			0		Open well with 4337 psi. Begin Stage 6 Frac. Stage 6 Summary Interval 19550 - 19686 Open Well Pressure 4,341 psi Max Treating Pressure 9,314 psi Max Slurry Rate 54.8 bpm Average Treating Pressure 8,811 psi Average Slurry Rate 46.4 bpm Breakdown Pressure 7,868 psi Breakdown Rate 13 bpm Breakdown Volume 5 gal Avg HHP 10,020 hp Final ISIP 5,343 psi Frac Gradient 0.877 psi/ft Pad Volume 1,218 gal Main Body Volume 205,674 gal Flush Volume 29,484 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 329,590 lbs 100 M White Sand Pumped 82,160 lbs Proppant in Formation 411,750 lbs Avg Proppant Concentration 2.36 lb/gal Max Proppant Concentration 3.00 lb/gal Load to Recover (incl. pumpdown) 5,198 bbls Load to Recover w/o Acid 5,198 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,897 bbls

EP WELLS DAILY OPERATIONS REPORT

Report 25

05/27/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 301 bbls Pump down rate 10.5 bpm Max pump down pressure 6,544 psi Fluid Temp 72.0 ?F Total Pump Time 1:58 hr:min Pumps Lost During Job 0 Treatment Start Time 16:51 Treatment End Time 18:49 - Proppant was pumped as a ramp from 0.50 PPA to 2.50 PPA, then as a hold of 2.50 PPA and 3.00 PPA. - No Gel was pumped during this stage. - No Acid pumped this stage Time for Prop on Perfs 23.0 minutes Time between Stages (TBF) 4:54 hrs/min
18:49	3.15	FRAC	FWL			0		Handover from Frac to WL. Wait on other pad ops.
21:58	0.07	FRAC	FWL			0		PU wireline tools
22:02	0.05	FRAC	FWL			0		Stab lubricator
22:05	0.15	FRAC	FWL			0		Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
22:14	1.60	FRAC	WLT			0		Stage #7 Plug and Perf Open well with 4100 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite "Ball In Place" frac plug. Tie into liner top @ 11486'. Bring on pumps at 11,700'. Pump down as follows: 3 bpm @ 4100 psi at 11,700' 6 bpm @ 4300 psi at 11,800' 7 bpm @ 5000 psi at 12,600' 8 bpm @ 5300 psi at 13,200' 9 bpm @ 5600 psi at 15,300' 10 bpm @ 6200 psi at 17,100' Max rate: 10 bpm. Max pressure: 6500 psi Set plug @ 19530 ft w/ 2 bpm pumping Perforate as follows: 19505' - 19506' 19460' - 19461' 19415' - 19416' 19370' - 19371' Stabilized pressure before perforating: 5000 psi Stabilized pressure after perforating: 4700 psi Pump down volume: 280 bbls
23:50	0.17	FRAC	WLT			0		POOH with Wireline.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.62	FRAC	WLT			0	Continue to POOH with Wireline.
1:37	0.25	FRAC	GRS			0	Shut in well with 4050 psi. Bleed off & break lubricator. All shots fired. Secure crown and wing valves. Grease LMV.
1:52	0.42	FRAC	WLF			0	Handover from WL to Frac. Wait on other pad ops.
2:17	1.78	FRAC	FRT			0	Open well with 4006 psi. Begin Stage 7 Frac. Stage 7 Summary Interval 19370 - 19506

EP WELLS DAILY OPERATIONS REPORT

Report 25

05/27/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							Open Well Pressure 4,006 psi Max Treating Pressure 9,297 psi Max Slurry Rate 53.3 bpm Average Treating Pressure 8,712 psi Average Slurry Rate 46.2 bpm Breakdown Pressure 7,847 psi Breakdown Rate 9 bpm Breakdown Volume 7 gal Avg HHP 9,865 hp Final ISIP 5,421 psi Frac Gradient 0.884 psi/ft Pad Volume 1,218 gal Main Body Volume 181,860 gal Flush Volume 29,484 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 337,340 lbs 100 M White Sand Pumped 80,220 lbs Proppant in Formation 417,560 lbs Avg Proppant Concentration 2.80 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,610 bbls Load to Recover w/o Acid 4,610 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,330 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 280 bbls Pump down rate 10.0 bpm Max pump down pressure 6,500 psi Fluid Temp 72.0 ?F Total Pump Time 1:44 hr:min Pumps Lost During Job 0 Treatment Start Time 2:19 Treatment End Time 4:03 - Proppant was pumped as a ramp from 0.50 PPA to 3.00 PPA, then as holds of 3.00 PPA and 3.50 PPA. - No Gel was pumped during this stage. - No Acid pumped this stage Time for Prop on Perfs 22.0 minutes Time between Stages (TBF) 2:10 hrs/min
4:04		FRAC	FWL			0	Handover from Frac to WL. Wait on other pad ops.

EP WELLS DAILY OPERATIONS REPORT

Report 26

05/28/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	26.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	John Bevans / Ephraim Hathaway	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	16.50/68.75	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	905,769/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.21	LOT/FIT EMW(ppg)	
Daily Cost	75,145	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	25

Operations Summary

24 Hour Summary
Frac Stage 7. Wait on replacement WL truck
Update Since Report Time
24 Hour Forecast
Continue Frac ops

EP WELLS DAILY OPERATIONS REPORT

Report 26

05/28/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.62	FRAC	WLT			0		Continue to POOH with Wireline.
1:37	0.25	FRAC	GRS			0		Shut in well with 4050 psi. Bleed off & break lubricator. All shots fired. Secure crown and wing valves. Grease LMV.
1:52	0.42	FRAC	WLF			0		Handover from WL to Frac. Wait on other pad ops.
2:17	1.78	FRAC	FRT			0		<p>Open well with 4006 psi. Begin Stage 7 Frac.</p> <p>Stage 7 Summary</p> <p>Interval 19370 - 19506</p> <p>Open Well Pressure 4,006 psi</p> <p>Max Treating Pressure 9,297 psi</p> <p>Max Slurry Rate 53.3 bpm</p> <p>Average Treating Pressure 8,712 psi</p> <p>Average Slurry Rate 46.2 bpm</p> <p>Breakdown Pressure 7,847 psi</p> <p>Breakdown Rate 9 bpm</p> <p>Breakdown Volume 7 gal</p> <p>Avg HHP 9,865 hp</p> <p>Final ISIP 5,421 psi</p> <p>Frac Gradient 0.884 psi/ft</p> <p>Pad Volume 1,218 gal</p> <p>Main Body Volume 181,860 gal</p> <p>Flush Volume 29,484 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 337,340 lbs</p> <p>100 M White Sand Pumped 80,220 lbs</p> <p>Proppant in Formation 417,560 lbs</p> <p>Avg Proppant Concentration 2.80 lb/gal</p> <p>Max Proppant Concentration 3.50 lb/gal</p> <p>Load to Recover (incl. pumpdown) 4,610 bbls</p> <p>Load to Recover w/o Acid 4,610 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 4,330 bbls</p> <p>20# Linear Fluid Pumped 0 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 280 bbls</p> <p>Pump down rate 10.0 bpm</p> <p>Max pump down pressure 6,500 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 1:44 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 2:19</p> <p>Treatment End Time 4:03</p> <p>- Proppant was pumped as a ramp from 0.50 PPA to 3.00 PPA, then as holds of 3.00 PPA and 3.50 PPA.</p> <p>- No Gel was pumped during this stage.</p> <p>- No Acid pumped this stage</p> <p>Time for Prop on Perfs 22.0 minutes</p> <p>Time between Stages (TBF) 2:10 hrs/min</p>
4:04	3.43	FRAC	FWL			0		Handover from Frac to WL. Wait on other pad ops.
7:30	4.50	FRAC	FWL			1		**** Start NPT on Cameron Wellhead (WOE) **** Lower master will not hold pressure. Cameron tech to water flush & Re-grease LMV. Negative test for 30 min Test good...
12:00	6.43	FRAC	FWL			1		**** End NPT on Cameron Wellhead (WOE) **** Valve greased and tested. Wait on other pad ops.
18:26	5.57	FRAC	FWL			1		**** Begin NPT on Keane WL (WOE) **** Greaseless WL is bad. Several bare spots on wire causing operational issues. Wait on new WL truck to replace.
Total	24.00							

EP WELLS DAILY OPERATIONS REPORT

Report 26

05/28/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00		FRAC	FWL			0	**** Continue NPT on Keane WL (WOE) **** Greaseless WL is bad. Replacement truck arrives on location. RU truck and PCE.

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
05/28/2018 07:30	CAMERON INTERNATIONAL CORPORATION D	Wellhead (Surface)	0.00	FWL	N			10.93	1	OPEN
Description: **** Start NPT on Cameron Wellhead (WOE) **** Lower master will not hold pressure. Cameron tech to water flush & Re-grease LMV. Negative test for 30 min Test good... **** End NPT on Cameron Wellhead (WOE) **** Valve greased and tested. Wait on other pad ops.						Title: WOE				
05/28/2018 18:26	KEANE FRAC LP	Perforation	0.00	FWL	N		0.00	0.00	1	OPEN
Description: **** Begin NPT on Keane WL (WOE) **** Greaseless WL is bad. Several bare spots on wire causing operational issues. Wait on new WL truck to replace.						Title: WOE				
Total							0.00	10.93		

EP WELLS DAILY OPERATIONS REPORT

Report 27

05/29/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	27.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	John Bevans / Ephraim Hathaway	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	9.33/38.89	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	990,387/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.23	LOT/FIT EMW(ppg)	
Daily Cost	84,338	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	26

Operations Summary

24 Hour Summary
Frac Stage 8. Screened out on 4#. Flow well back.
Update Since Report Time
24 Hour Forecast
Flow well back and attempt to flush at rate. Continue Frac ops.

EP WELLS DAILY OPERATIONS REPORT

Report 27

05/29/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	9.33	FRAC	FWL			1		**** Continue NPT on Keane WL (WOE) **** Greaseless WL is bad. Replacement truck arrives on location. RU truck and PCE. Pressure test to 8000 psi
9:20	2.67	FRAC	OPO			0		Wait on other pad ops.
12:00	0.12	FRAC	FWL			0		Wireline stabbed on. Pressure test to 8000 psi. Open well with 3350 psi.
12:07	3.58	FRAC	WLT			0		Stage #8 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 19346' Perforate as follows: 19325' - 19326' (plug became differentially stuck after shooting first cluster). Discuss w/ Shell and vendor engineering. P/U to 5000 lbf 3 times, wireline comes free on fourth pick up at 3800 lbf.) 19280' - 19281' 19237' - 19238' 19190' - 19191' Stabilized pressure after perf.: 3668 psi Maximum pump down rate: 10 bpm Pump down volume: 246 bbl
15:42	0.55	FRAC	WLF			0		Shut in well with 3700 psi. Grease UMV and wing valves. Handover to frac
16:15	6.02	FRAC	FRT			0		Open well with 3497 psi. Begin Stage 8 Frac Stage 8 Summary Interval 19190 - 19326 Open Well Pressure 3,497 psi Max Treating Pressure 9,298 psi Max Slurry Rate 57.1 bpm Average Treating Pressure 8,996 psi Average Slurry Rate 45.8 bpm Breakdown Pressure 7,800 psi Breakdown Rate 12 bpm Breakdown Volume 13 gal Avg HHP 10,098 hp Final ISIP 4,682 psi Frac Gradient 0.822 psi/ft Pad Volume 1,218 gal Main Body Volume 191,016 gal Flush Volume 36,792 gal 100 MA-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 433,480 lbs 100 M White Sand Pumped 0 lbs Proppant in Formation 433,480 lbs Avg Proppant Concentration 2.89 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,837 bbls Load to Recover w/o Acid 4,837 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,548 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 289 bbls Pump down rate 10.0 bpm Max pump down pressure 6,967 psi Fluid Temp 72.0 °F Total Pump Time 4:14 hr:min Pumps Lost During Job 0 Treatment Start Time 16:13 19:37 Treatment End Time 17:59 22:05 - Proppant was pumped as a ramp from 0.50 PPA to 3.00 PPA, then as holds of 3.00 PPA, 3.50 PPA, and 4.00 PPA

EP WELLS DAILY OPERATIONS REPORT

Report 27

05/29/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- No Gel was pumped during this stage. - No Acid pumped this stage - Flush volume of 43 Bbls will be added to pumpdown volume at end of this stage - On flush, we screened out with approx. 38,000 lbs of proppant in the wellbore. The OSR flowed back 500 bbls and we attempted to finish flush. After a full wellbore volume at 3 BPM with no pressure relief, the OSR made the decision to shut down, call it a stage and move on to the next well. The OSR is currently considering options with this stage as we move to the 1002H Stage 8. Time for Prop on Perfs 23.0 minutes Time between Stages (TBF) 2:11 hrs/min **** Screened out on 4#. Flowed well back at 4 bpm from 18:10 to 19:30. Attempted to get back into it. Could not pump over 2 bpm at 9400 psi. ****
22:16	0.83	FRAC	FRT			0		Shut in with 4565 psi. Wait on other pad ops.
23:06	0.90	FRAC	FRT			0		Open well to flowback on 2" wing side. Flow back at 3 to 4 bpm for 150 minutes.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	2.50	FRAC	FRP			0	Open well to flowback on 2" wing side. Flow back at 3 to 4 bpm for 150 minutes from screen out on Stage 8 frac.
2:30		FRAC	FRP			0	Shut in well with psi. Wait on other pad ops.

EP WELLS DAILY OPERATIONS REPORT

Report 28

05/30/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	28.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	John Bevans / Ephraim Hathaway	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	1,007,598/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.23	LOT/FIT EMW(ppg)	
Daily Cost	16,566	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	27

Operations Summary

24 Hour Summary
Flow back from Screen Out on Stage 8. Frac Stage 9
Update Since Report Time
24 Hour Forecast
Continue Frac ops.

EP WELLS DAILY OPERATIONS REPORT

Report 28

05/30/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.50	FRAC	FRP			0		Open well to flowback on 2" wing side. Flow back at 3 to 4 bpm for 150 minutes from screen out on Stage 8 frac. Return heavy sand.
2:30	1.52	FRAC	FRP			0		Shut in well with 3400 psi. Wait on other pad ops.
4:01	2.73	FRAC	FRP			0		Open well with 3055 psi. Attempt to get back into stage 8 for flush.
6:45	0.58	FRAC	WLT			0		Wireline finishes on 1002 well. Make up tools for wireline.
7:20	0.08	FRAC	WLT			0		Stab wireline. Pressure test to 8000 psi. Open well at 5250 psi.
7:25	2.25	FRAC	WLT			0		Attempt #1 on Perf stage 9. RIH to liner top. Bring rate to 8 bpm. Pressure increases to 8310 psi and trending upwards to burst disk rating of 8500 psi. Discuss with engineering. POOH from 13,000' to surface. Did not shoot plug, did not shoot any perfs.
9:40	5.57	FRAC	OPO			0		Shut in wireline. Other pad operations. Replace pump-down burst disk from 8500 psi rate to 9700 psi rated.
15:14	0.65	PREW	INJ			0		Attemp #2 to flush well for stage 9 perfs. Bring rate to 22 bpm @ 8900 psi Increase up to max rate of 38 bpm @ 9200 Pump 700 bbls (596 = wellbore volume) Drop rate to 10 bpm @ 6700 psi to simulate pump-down. Total fluid = 750 bbls
15:53	0.30	FRAC	FWL			0		Pump down pumps now have higher rated burst disk in line. Stab wireline and pressure test to 9000 psi.
16:11	0.32	FRAC	FWL			0		Attempt #2 on Perf Stage 9 Open well. Unable to fall from grease tubes. Do not set plug, do not perf any shots.
16:30	2.60	FRAC	FWL			0		*** Begin NPT on Keane WL (WOE) **** Unable to get WL to fall thru grease tubes. Close UM valve. Keane pulls off the well, lays down lubricator, re-heads and insects grease tubes.
19:06	0.15	FRAC	FWL			0		*** Continue NPT on Keane WL (WOE) **** PU WL Tools and stab lubricator
19:15	0.10	FRAC	FWL			0		*** Continue NPT on Keane WL (WOE) **** Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
19:21	1.95	FRAC	WLT			0		*** END NPT on Keane WL (WOE) **** Back on well. Total NPT = 2.85 hrs Stage #9 Plug and Perf Open well with 4600 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite "Ball In Place" frac plug. Tie into liner top @ 11486'. Bring on pumps at 12,200". Pump down as follows: 3 bpm @ 4400 psi at 12,200' 6 bpm @ 4700 psi at 12,300' 8 bpm @ 6000 psi at 12,500' Max rate: 8 bpm. Max pressure: 8300 psi Set plug @ 19170 ft w/ 2 bpm pumping Perforate as follows: 19145' - 19146' 19100' - 19101' 19055' - 19056' 19010' - 19011' Stabilized pressure after perforating: 5600 psi Stabilized pressure after perforating: 5400 psi Pump down volume: 280 bbls
21:18	1.58	FRAC	WLT			0		POOH with Wireline.
22:53	0.05	FRAC	WLT			0		Shut in well with 4600 psi. Bleed off & break lubricator. All shots fired.

EP WELLS DAILY OPERATIONS REPORT

Report 28

05/30/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
22:56	0.20	FRAC	GRS			0		Grease crown and wing valves.
23:08	0.17	FRAC	WLF			0		Handover from WL to Frac. Wait on other pad ops.
23:18	0.70	FRAC	FRT			0		<p>Open well with 4315 psi. Begin Stage 9 Frac.</p> <p>Stage 9 Summary</p> <p>Interval 19010 - 19146</p> <p>Open Well Pressure 4,353 psi</p> <p>Max Treating Pressure 9,188 psi</p> <p>Max Slurry Rate 52.5 bpm</p> <p>Average Treating Pressure 8,804 psi</p> <p>Average Slurry Rate 43.7 bpm</p> <p>Breakdown Pressure 7,652 psi</p> <p>Breakdown Rate 9 bpm</p> <p>Breakdown Volume 8 gal</p> <p>Avg HHP 9,430 hp</p> <p>Final ISIP 5,476 psi</p> <p>Frac Gradient 0.888 psi/ft</p> <p>Pad Volume 1,092 gal</p> <p>Main Body Volume 192,108 gal</p> <p>Flush Volume 29,316 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 418,780 lbs</p> <p>100 M White Sand Pumped 0 lbs</p> <p>Proppant in Formation 418,780 lbs</p> <p>Avg Proppant Concentration 2.63 lb/gal</p> <p>Max Proppant Concentration 3.00 lb/gal</p> <p>Load to Recover (incl. pumpdown) 4,854 bbls</p> <p>Load to Recover w/o Acid 4,854 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 4,574 bbls</p> <p>20# Linear Fluid Pumped 0 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 280 bbls</p> <p>Pump down rate 9.0 bpm</p> <p>Max pump down pressure 8,300 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 1:59 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 23:18</p> <p>Treatment End Time 1:17</p> <p>- Ball in place plug was utilized.</p> <p>- Proppant was pumped as a ramp from 0.50 PPA to 3.00 PPA, then as a hold of 3.00 PPA.</p> <p>Time for Prop on Perfs 23.0 minutes</p> <p>Time between Stages (TBF) 5:34 hrs/min</p>
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.27	FRAC	FRT			0	Complete Stage 9 Frac. See 05/30/18 for details.
1:16	0.17	FRAC	FWL			0	Handover from Frac to WL.
1:26	0.03	FRAC	FWL			0	PU WL tools.
1:28	0.07	FRAC	FWL			0	Stab lubricator.
1:32	0.10	FRAC	FWL			0	Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
1:38	1.37	FRAC	WLT			0	<p>Stage #10 Plug and Perf</p> <p>Open well with 4800 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology</p>

EP WELLS DAILY OPERATIONS REPORT

Report 28

05/30/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							<p>Boss Hog composite "Ball In Place" frac plug. Tie into liner top @ 11486'. Bring on pumps at 12,100'. Pump down as follows:</p> <p>3 bpm @ 4800 psi at 12,100'</p> <p>6 bpm @ 4400 psi at 12,200'</p> <p>9 bpm @ 5300 psi at 12,300'</p> <p>10 bpm @ 5800 psi at 15,300'</p> <p>Max rate: 10 bpm. Max pressure: 6100 psi</p> <p>Set plug @ 18993 ft w/ 2 bpm pumping (Plug set 6' deep. Could not pull up to get on depth due to WL tension. Set plug to free up)</p> <p>Perforate as follows:</p> <p>18971' - 18972' (+6' Fired gun in attempt to help relieve WL tension. Pulling 4300 lbs. Then begin pumping 2 bpm to help get guns moving uphole.)</p> <p>18920' - 18921'</p> <p>18876' - 18877' +1' for collar</p> <p>18829' - 18830' -1' for collar</p> <p>Stabilized pressure after perforating: 5100 psi</p> <p>Pump down volume: 138 bbls</p>
3:00		FRAC	WLT			0	<p>POOH with Wireline. Pull up off btm at 29 fpm up to 17,300 ft. Pulling 3900 to 4200 lbs. Frees up after 17,000'.</p>

EP WELLS DAILY OPERATIONS REPORT

Report 29

05/31/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	29.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	John Bevans / Ephraim Hathaway	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	1,215,037/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.28	LOT/FIT EMW(ppg)	
Daily Cost	140,549	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	28

Operations Summary

24 Hour Summary
Frac Stage 10-11
Update Since Report Time
24 Hour Forecast
Continue Frac ops

EP WELLS DAILY OPERATIONS REPORT

Report 29

05/31/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.27	FRAC	FRT			0		Complete Stage 9 Frac. See 05/30/18 for details.
1:16	0.17	FRAC	FWL			0		Handover from Frac to WL.
1:26	0.03	FRAC	FWL			0		PU WL tools.
1:28	0.07	FRAC	FWL			0		Stab lubricator.
1:32	0.10	FRAC	FWL			0		Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
1:38	1.37	FRAC	WLT			0		<p>Stage #10 Plug and Perf</p> <p>Open well with 4800 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite "Ball In Place" frac plug. Tie into liner top @ 11486'. Bring on pumps at 12,100'. Pump down as follows:</p> <p>3 bpm @ 4800 psi at 12,100'</p> <p>6 bpm @ 4400 psi at 12,200'</p> <p>9 bpm @ 5300 psi at 12,300'</p> <p>10 bpm @ 5800 psi at 15,300'</p> <p>Max rate: 10 bpm. Max pressure: 6100 psi</p> <p>Set plug @ 18993 ft w/ 2 bpm pumping (Plug set 6' deep. Could not pull up to get on depth due to WL tension. Set plug to free up)</p> <p>Perforate as follows:</p> <p>18971' - 18972' (+6' Fired gun in attempt to help relieve WL tension. Pulling 4300 lbs. Then begin pumping 2 bpm to help get guns moving uphole.)</p> <p>18920' - 18921'</p> <p>18876' - 18877' +1' for collar</p> <p>18829' - 18830' -1' for collar</p> <p>Stabilized pressure after perforating: 5100 psi</p> <p>Pump down volume: 138 bbls</p>
3:00	1.38	FRAC	WLT			0		POOH with Wireline. Pull up off btm at 29 fpm up to 17,300 ft. Pulling 3900 to 4200 lbs. Frees up after 17,000'.
4:23	0.20	FRAC	WLT			0		Shut in well with 4550 psi. Bleed off & break lubricator. All shots fired. Secure crown and wing valves.
4:35	0.92	FRAC	GRS			0		Grease LMV and zipper manifold. Re-head WL due to tension overpulls. (3 runs made since last re-head)
5:30	0.17	FRAC	WLF			0		Handover from WL to Frac. Wait on other pad ops.
5:40	1.82	FRAC	WLF			0		<p>University 20 PW Unit 1007H Stage 10 Summary</p> <p>Interval 18830 - 18966</p> <p>Open Well Pressure 4,255 psi</p> <p>Max Treating Pressure 9,419 psi</p> <p>Max Slurry Rate 58.9 bpm</p> <p>Average Treating Pressure 8,881 psi</p> <p>Average Slurry Rate 47.3 bpm</p> <p>Breakdown Pressure 7,816 psi</p> <p>Breakdown Rate 10 bpm</p> <p>Breakdown Volume 14 gal</p> <p>Avg HHP 10,296 hp</p> <p>Final ISIP 5,233 psi</p> <p>Frac Gradient 0.868 psi/ft</p> <p>Pad Volume 1,344 gal</p> <p>Main Body Volume 183,540 gal</p> <p>Flush Volume 31,164 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 419,920 lbs</p> <p>100 M White Sand Pumped 0 lbs</p> <p>Proppant in Formation 419,920 lbs</p> <p>Avg Proppant Concentration 2.83 lb/gal</p> <p>Max Proppant Concentration 3.50 lb/gal</p> <p>Load to Recover (incl. pumpdown) 4,540 bbls</p>

EP WELLS DAILY OPERATIONS REPORT

Report 29

05/31/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Load to Recover w/o Acid 4,540 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,370 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 170 bbls Pump down rate 10.0 bpm Max pump down pressure 6,100 psi Fluid Temp 72.0 ?F Total Pump Time 1:48 hr:min Pumps Lost During Job 0 Treatment Start Time 5:41 0:00 0:00 Treatment End Time 7:29 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp from 0.50 PPA to 3.00 PPA, then as holds of 3.00 PPA and 3.50 PPA. - Raised FR concentration to 0.70 gpt during 3.50 PPA. Time for Prop on Perfs 26.0 minutes Time between Stages (TBF) 2:29 hrs/min
7:29	10.02	FRAC	FWL			0		Wait on other pad ops.
17:30	0.22	FRAC	FWL			0		PU WL tools, Stab lubricator.
17:43	0.10	FRAC	FWL			0		Fill and pressure test lubricator to 8000 psi. Good test.
17:49	1.18	FRAC	WLT			0		Stage #11 Plug and Perf Open well with 4000 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite "Ball In Place" frac plug. Tie into liner top @ 11486'. Bring on pumps at 12,000'. Pump down as follows: 3 bpm @ 3900 psi at 12,000' 6 bpm @ 4200 psi at 12,100' 9 bpm @ 4700 psi at 12,200' 10 bpm @ 5000 psi at 12,300' Max rate: 10 bpm. Max pressure: 6500 psi Set plug @ 18810 ft w/ 2 bpm pumping Perforate as follows: 18785' - 18786' 18740' - 18741' 18695' - 18696' 18650' - 18651' Stabilized pressure before perforating: 4900 psi Stabilized pressure after perforating: 4700 psi Pump down volume: 176 bbls
19:00	1.03	FRAC	WLT			0		POOH with Wireline.
20:02	0.03	FRAC	WLT			0		Shut in well with psi. Bleed off & break lubricator. All shots fired. Re-head WL.
20:04	0.43	FRAC	GRS			0		Grease crown and wing valves. Grease zipper mainfold.
20:30	2.92	FRAC	WLF			0		Wait on other pad ops.
23:25	0.58	FRAC	FRT			0		Open well with 3888. Begin Stage 11 Frac. Stage 11 Summary Interval 18650 - 18786 Open Well Pressure 3,893 psi Max Treating Pressure 9,187 psi Max Slurry Rate 54.6 bpm Average Treating Pressure 8,728 psi Average Slurry Rate 45.7 bpm Breakdown Pressure 7,613 psi

EP WELLS DAILY OPERATIONS REPORT

Report 29

05/31/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Breakdown Rate 11 bpm Breakdown Volume 13 gal Avg HHP 9,776 hp Final ISIP 5,312 psi Frac Gradient 0.875 psi/ft Pad Volume 798 gal Main Body Volume 175,728 gal Flush Volume 28,812 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 413,600 lbs 100 M White Sand Pumped 0 lbs Proppant in Formation 413,600 lbs Avg Proppant Concentration 2.89 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,360 bbls Load to Recover w/o Acid 4,360 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,184 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 176 bbls Pump down rate 10.0 bpm Max pump down pressure 5,800 psi Fluid Temp 72.0 ?F Total Pump Time 1:43 hr:min Pumps Lost During Job 0 Treatment Start Time 23:26 Treatment End Time 1:09 - Ball in place plug was utilized. - Proppant was pumped as a ramp from 0.50 PPA to 3.25 PPA, then as holds of 3.25 PPA, and 3.50 PPA. - KFR-40 concentration was increased from 0.60 to 0.70 gpt due to high pressure during the 3.50 PPA stage. Time for Prop on Perfs 22.0 minutes Time between Stages (TBF) 0:04 hrs/min
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.17	FRAC	FRT			0	Complete Stage 11 Frac. See 05/31/18 report for details.
1:10	2.63	FRAC	FWL			0	Handover from Frac to WL. Wait on other pad ops.
3:48	0.08	FRAC	FWL			0	PU WL tools. Stab lubricator.
3:53	0.08	FRAC	FWL			0	Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
3:58		FRAC	WLT			0	

EP WELLS DAILY OPERATIONS REPORT

Report 30

06/01/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	30.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	John Bevans / Ephraim Hathaway	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	1,370,443/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.32	LOT/FIT EMW(ppg)	
Daily Cost	148,880	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	29

Operations Summary

24 Hour Summary
Frac Stages 12-13
Update Since Report Time
24 Hour Forecast
Continue Frac ops

EP WELLS DAILY OPERATIONS REPORT

Report 30

06/01/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.17	FRAC	FRT			0		Complete Stage 11 Frac. See 05/31/18 report for details.
1:10	2.63	FRAC	FWL			0		Handover from Frac to WL. Wait on other pad ops.
3:48	0.08	FRAC	FWL			0		PU WL tools. Stab lubricator.
3:53	0.08	FRAC	FWL			0		Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
3:58	1.13	FRAC	WLT			0		<p>Stage #12 Plug and Perf</p> <p>Open well with 4200 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite "Ball In Place" frac plug. Tie into liner top @ 11486'. Bring on pumps at 12,000'. Pump down as follows:</p> <p>3 bpm @ 4200 psi at 12,000'</p> <p>6 bpm @ 4500 psi at 12,100'</p> <p>9 bpm @ 4900 psi at 12,200'</p> <p>10 bpm @ 5200 psi at 12,300'</p> <p>Max rate: 10 bpm. Max pressure: 6800 psi</p> <p>Set plug @ 18628 ft w/ 2 bpm pumping (-2' for collar)</p> <p>Perforate as follows:</p> <p>18605' - 18606'</p> <p>18560' - 18561'</p> <p>18515' - 18516'</p> <p>18468' - 18469' (-2' for collar)</p> <p>Stabilized pressure after perforating: 4900 psi</p> <p>Pump down volume: 160 bbls</p>
5:06	0.90	FRAC	WLT			0		POOH with Wireline.
6:00	0.25	FRAC	WLF			0		Shut in well with 4300 psi.
6:15	2.75	FRAC	WLF			0		Handover well to frac.
9:00	0.23	FRAC	WLF			0		Wait on other pad operations.
9:14	1.65	FRAC	FRT			0		<p>Prime and pressure test frac.</p> <p>University 20 PW Unit 1007H Stage 12 Summary</p> <p>Interval 18470 - 18606</p> <p>Open Well Pressure 3,888 psi</p> <p>Max Treating Pressure 9,354 psi</p> <p>Max Slurry Rate 57.4 bpm</p> <p>Average Treating Pressure 8,914 psi</p> <p>Average Slurry Rate 48.0 bpm</p> <p>Breakdown Pressure 8,256 psi</p> <p>Breakdown Rate 12 bpm</p> <p>Breakdown Volume 8 gal</p> <p>Avg HHP 10,487 hp</p> <p>Final ISIP 5,370 psi</p> <p>Frac Gradient 0.879 psi/ft</p> <p>Pad Volume 840 gal</p> <p>Main Body Volume 181,734 gal</p> <p>Flush Volume 28,812 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 427,260 lbs</p> <p>100 M White Sand Pumped 0 lbs</p> <p>Proppant in Formation 427,260 lbs</p> <p>Avg Proppant Concentration 2.91 lb/gal</p> <p>Max Proppant Concentration 3.50 lb/gal</p> <p>Load to Recover (incl. pumpdown) 4,487 bbls</p> <p>Load to Recover w/o Acid 4,487 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 4,327 bbls</p> <p>20# Linear Fluid Pumped 0 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p>

EP WELLS DAILY OPERATIONS REPORT

Report 30

06/01/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Pump down volume 160 bbls Pump down rate 10.0 bpm Max pump down pressure 6,800 psi Fluid Temp 72.0 °F Total Pump Time 1:40 hr:min Pumps Lost During Job 1 Treatment Start Time 9:13 0:00 0:00 Treatment End Time 10:53 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp from 0.50 PPA to 3.25 PPA, then as holds of 3.25 PPA & 3.50 PPA. Time for Prop on Perfs 21.0 minutes Time between Stages (TBF) 0:51 hrs/min
10:53	1.12	FRAC	FWL			0		Other pad operations. Re-head conventional wireline (after 6 runs), grease zipper manifold, and perform pump maintenance.
12:00	2.25	FRAC	FWL			0		Finish maintenance. Handover to other wells.
14:15	0.32	FRAC	FWL			0		Handover to WL.
14:34	0.10	FRAC	FWL			0		Stab lubricator. Pressure test lubricator to 7500 psi. Open well with 4200 psi.
14:40	2.23	FRAC	WLT			0		Stage #13 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 18450' Perforate as follows: 18425' - 18426' 18380' - 18381' 18335' - 18336' 18290' - 18291' Stabilized pressure after perf.: 4565 psi Maximum pump down rate: 10 bpm Pump down volume: 164 bbl POOH
16:54	0.18	FRAC	WLF			0		Shut in well with 4300 psi. Handover well to frac.
17:05	2.75	FRAC	WLF			0		Wait on other pad operations.
19:50	0.35	FRAC	FRP			0		Prime and test after pump maintenance.
20:11	1.83	FRAC	FRT			0		Open well with 3860 psi. begin Stage 13 Frac. Stage 13 Summary Interval 18290 - 18426 Open Well Pressure 3,860 psi Max Treating Pressure 9,041 psi Max Slurry Rate 54.9 bpm Average Treating Pressure 8,530 psi Average Slurry Rate 45.9 bpm Breakdown Pressure 7,143 psi Breakdown Rate 10 bpm Breakdown Volume 15 gal Avg HHP 9,596 hp Final ISIP 5,837 psi Frac Gradient 0.918 psi/ft Pad Volume 1,176 gal Main Body Volume 185,556 gal Flush Volume 28,728 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 431,590 lbs 100 M White Sand Pumped 0 lbs Proppant in Formation 431,590 lbs

EP WELLS DAILY OPERATIONS REPORT

Report 30

06/01/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Avg Proppant Concentration 2.82 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,572 bbls Load to Recover w/o Acid 4,572 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,418 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 154 bbls Pump down rate 10.0 bpm Max pump down pressure 6,571 psi Fluid Temp 72.0 °F Total Pump Time 1:49 hr:min Pumps Lost During Job 1 Treatment Start Time 20:12 Treatment End Time 22:01 - Ball in place plug was utilized. - Proppant was pumped as a ramp from 0.50 PPA to 3.25 PPA, then as holds of 3.25 PPA & 3.50 PPA. - KFR-40 concentration was increased from 0.60-0.70 gpt during the 3.50 PPA stage, due to high pressure. Time for Prop on Perfs 23.0 minutes Time between Stages (TBF) 0:58 hrs/min
22:01	1.60	FRAC	FWL			0		Handover from Frac to wireline. Wait on other pad ops.
23:37	0.12	FRAC	FWL			0		PU WL tools. Stab lubricator.
23:44	0.27	FRAC	FWL			0		Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.77	FRAC	WLT			0	Stage #14 Plug and Perf Open well with 4400 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite Ball In Place frac plug. Tie into liner top @ 11486'. Bring on pumps at 12,000". Pump down as follows: 3 bpm @ 4300 psi at 12,000' 6 bpm @ 4600 psi at 12,100' 9 bpm @ 4700 psi at 12,200' 10 bpm @ 5000 psi at 12,300' Max rate: 10 bpm. Max pressure: 6000 psi Set plug @ 18266 ft w/ 2 bpm pumping (-4' for collar) Perforate as follows: 18245' - 18246' 18200' - 18201' 18155' - 18156' 18108' - 18109' (-2' for collar) Stabilized pressure after perforating: 4700 psi Pump down volume: 146 bbls
0:46	0.78	FRAC	WLT			0	POOH with Wireline.
1:33	0.08	FRAC	WLT			0	Shut in well with psi. Bleed off & break lubricator. All shots fired. Set lubricator down for re-head.
1:38	0.97	FRAC	GRS			0	Grease crown and wing valves. Grease zipper manifold during re-head process.
2:36		FRAC	WLF			0	Handover from WL to Frac. Wait on other pad ops.

EP WELLS DAILY OPERATIONS REPORT

Report 31

06/02/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	31.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	John Bevans / Ephraim Hathaway	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	1.50/6.25	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	1,517,941/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.35	LOT/FIT EMW(ppg)	
Daily Cost	147,496	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	30

Operations Summary

24 Hour Summary
Frac Stages 14-15
Update Since Report Time
24 Hour Forecast
Continue Frac ops.

EP WELLS DAILY OPERATIONS REPORT

Report 31

06/02/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.77	FRAC	WLT			0		<p>Stage #14 Plug and Perf</p> <p>Open well with 4400 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite Ball In Place frac plug. Tie into liner top @ 11486'. Bring on pumps at 12,000". Pump down as follows:</p> <p>3 bpm @ 4300 psi at 12,000'</p> <p>6 bpm @ 4600 psi at 12,100'</p> <p>9 bpm @ 4700 psi at 12,200'</p> <p>10 bpm @ 5000 psi at 12,300'</p> <p>Max rate: 10 bpm. Max pressure: 6000 psi</p> <p>Set plug @ 18266 ft w/ 2 bpm pumping (-4' for collar)</p> <p>Perforate as follows:</p> <p>18245' - 18246'</p> <p>18200' - 18201'</p> <p>18155' - 18156'</p> <p>18108' - 18109' (-2' for collar)</p> <p>Stabilized pressure after perforating: 4700 psi</p> <p>Pump down volume: 146 bbls</p>
0:46	0.78	FRAC	WLT			0		POOH with Wireline.
1:33	0.08	FRAC	WLT			0		Shut in well with psi. Bleed off & break lubricator. All shots fired. Set lubricator down for re-head.
1:38	0.97	FRAC	GRS			0		Grease crown and wing valves. Grease zipper manifold during re-head process.
2:36	3.90	FRAC	WLF			0		Handover from WL to Frac. Wait on other pad ops.
6:30	0.22	FRAC	WLF			0		Line up to frac. Pressure test iron.
6:43	1.80	FRAC	FRT			0		<p>University 20 PW Unit 1007H Stage 14 Summary</p> <p>Interval 18110 - 18246</p> <p>Open Well Pressure 3,791 psi</p> <p>Max Treating Pressure 9,016 psi</p> <p>Max Slurry Rate 52.2 bpm</p> <p>Average Treating Pressure 8,566 psi</p> <p>Average Slurry Rate 45.8 bpm</p> <p>Breakdown Pressure 7,880 psi</p> <p>Breakdown Rate 9 bpm</p> <p>Breakdown Volume 31 gal</p> <p>Avg HHP 9,616 hp</p> <p>Final ISIP 5,588 psi</p> <p>Frac Gradient 0.898 psi/ft</p> <p>Pad Volume 1,932 gal</p> <p>Main Body Volume 169,512 gal</p> <p>Flush Volume 27,888 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 88,540 lbs</p> <p>100 M White Sand Pumped 338,560 lbs</p> <p>Proppant in Formation 427,100 lbs</p> <p>Avg Proppant Concentration 3.14 lb/gal</p> <p>Max Proppant Concentration 4.00 lb/gal</p> <p>Load to Recover (incl. pumpdown) 4,182 bbls</p> <p>Load to Recover w/o Acid 4,182 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 4,036 bbls</p> <p>20# Linear Fluid Pumped 0 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 146 bbls</p> <p>Pump down rate 10.0 bpm</p> <p>Max pump down pressure 6,000 psi</p> <p>Fluid Temp 72.0 °F</p> <p>Total Pump Time 1:48 hr:min</p> <p>Pumps Lost During Job 0</p>

EP WELLS DAILY OPERATIONS REPORT

Report 31

06/02/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Treatment Start Time 6:43 0:00 0:00 Treatment End Time 8:31 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped at as a ramp of 0.50 PPA to 3.50 PPA, and then as holds of 3.50 PPA, 3.75 PPA & 4.00 PPA. Time for Prop on Perfs 31.0 minutes Time between Stages (TBF) 0:51 hrs/min
8:31	0.07	FRAC	FWL			0		Shut in frac. Bleed to 0 psi. Handover to wireline operations.
8:35	5.82	FRAC	FWL			0		Wait on other pad activities.
14:24	0.60	FRAC	FWL			0		Make up wireline tools. Stab onto well to begin pressure test.
15:00	1.50	FRAC	FWL			1		** Start NPT - Keane Wireline - WOE ** While applying grease seal during the pressure test, there was a kink that formed in Keane wireline's grease hose that began dripping. Wireline comes off the well, lays down lubricator, and switches out hoses.
16:30	0.20	FRAC	FWL			0		** End NPT - Keane Wireline - WOE ** @ 16:30 Pressure test lubricator to 7500 psi. Open well with 3750 psi.
16:42	1.05	FRAC	WLT			0		Stage #15 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 18090' Perforate as follows: 18065' - 18066' 18020' - 18021' 17975' - 17976' 17930' - 17931' Stabilized pressure after perf.: 4915 psi Maximum pump down rate: 10 bpm Pump down volume: 141 bbl
17:45	0.77	FRAC	WLT			0		POOH with Wireline.
18:31	0.05	FRAC	WLT			0		Shut in well with 3925 psi. Bleed off & break lubricator. All shots fired.
18:34	0.28	FRAC	GRS			0		Grease crown and wing valves.
18:51	0.65	FRAC	WLF			0		Handover from WL to Frac. Wait on other pad ops.
19:30	0.45	FRAC	FRP			0		Prime and pressure test after pump maintenance.
19:57	1.55	FRAC	FRT			0		Open well with 3650 psi. Begin Stage 15 Frac. Stage 15 Summary Interval 17930 - 18066 Open Well Pressure 3,650 psi Max Treating Pressure 9,012 psi Max Slurry Rate 58.1 bpm Average Treating Pressure 8,640 psi Average Slurry Rate 48.7 bpm Breakdown Pressure 7,982 psi Breakdown Rate 10 bpm Breakdown Volume 9 gal Avg HHP 10,313 hp Final ISIP 5,511 psi Frac Gradient 0.891 psi/ft Pad Volume 714 gal Main Body Volume 168,462 gal Flush Volume 28,686 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs

EP WELLS DAILY OPERATIONS REPORT

Report 31

06/02/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								100 M White Sand Pumped 423,270 lbs Proppant in Formation 423,270 lbs Avg Proppant Concentration 3.10 lb/gal Max Proppant Concentration 3.75 lb/gal Load to Recover (incl. pumpdown) 4,152 bbls Load to Recover w/o Acid 4,152 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,011 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 141 bbls Pump down rate 10.0 bpm Max pump down pressure 6,501 psi Fluid Temp 72.0 ?F Total Pump Time 1:33 hr:min Pumps Lost During Job 0 Treatment Start Time 19:57 Treatment End Time 21:30 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA, and then as holds of 3.50 PPA, and 3.75 PPA. Time for Prop on Perfs 23.0 minutes Time between Stages (TBF) 2:09 hrs/min
21:30	2.50	FRAC	FWL			0		Handover from Frac to WL. Wait on other pad ops.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	2.07	FRAC	FWL			0	Wait on other pad ops.
2:04	0.08	FRAC	FWL			0	PU WL Tools. Stab lubricator.
2:09	0.08	FRAC	FWL			0	Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
2:14	1.00	FRAC	WLT			0	Stage #16 Plug and Perf Open well with 4075 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60" phased perforating guns and Downhole Technology Boss Hog composite "Ball In Place" frac plug. Tie into liner top @ 11,486'. Bring on pumps at 12,000'. Pump down as follows: 3 bpm @ 4000 psi at 12,000' 6 bpm @ 4200 psi at 12,100' 10 bpm @ 5000 psi at 12,200' Max rate: 10 bpm. Max pressure: 6500 psi Set plug @ 17910 ft w/ 2 bpm pumping Perforate as follows: 17885' - 17886' 17840' - 17841' 17795' - 17796' 17750' - 17751' Stabilized pressure after perforating: 4500 psi Pump down volume: 139 bbls
3:14	0.77	FRAC	WLT			0	POOH with Wireline.
4:00		FRAC	GRS			0	Shut in well with 4100 psi. **** Begin NPT on Shell (WOW) ***** Winds at 28 mph. Crane shut down operations. Wait on wind. Grease zipper manifold during down time.

EP WELLS DAILY OPERATIONS REPORT

Report 31

06/02/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
06/02/2018 15:00	KEANE FRAC LP	Perforation		FWL	EN	Elect W/L Surface Equipment	1.50	1.50		OPEN
Description: While applying grease seal during the pressure test, there was a kink that formed in Keane wireline's grease hose that began dripping. Wireline comes off the well, lays down lubricator, and switches out hoses.						Title: KINK IN HOSE				
Total							1.50	1.50		

EP WELLS DAILY OPERATIONS REPORT

Report 32

06/03/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	32.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	John Bevans / Ephraim Hathaway	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0.17/0.69	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	1,669,696/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.39	LOT/FIT EMW(ppg)	
Daily Cost	151,755	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	31

Operations Summary

24 Hour Summary
Frac Stages 16-17
Update Since Report Time
24 Hour Forecast
Continue Frac ops

EP WELLS DAILY OPERATIONS REPORT

Report 32

06/03/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.07	FRAC	FWL			0		Wait on other pad ops.
2:04	0.08	FRAC	FWL			0		PU WL Tools. Stab lubricator.
2:09	0.08	FRAC	FWL			0		Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
2:14	1.00	FRAC	WLT			0		<p>Stage #16 Plug and Perf</p> <p>Open well with 4075 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite "Ball In Place" frac plug. Tie into liner top @ 11,486'. Bring on pumps at 12,000'. Pump down as follows:</p> <p>3 bpm @ 4000 psi at 12,000'</p> <p>6 bpm @ 4200 psi at 12,100'</p> <p>10 bpm @ 5000 psi at 12,200'</p> <p>Max rate: 10 bpm. Max pressure: 6500 psi</p> <p>Set plug @ 17910 ft w/ 2 bpm pumping</p> <p>Perforate as follows:</p> <p>17885' - 17886'</p> <p>17840' - 17841'</p> <p>17795' - 17796'</p> <p>17750' - 17751'</p> <p>Stabilized pressure after perforating: 4500 psi</p> <p>Pump down volume: 139 bbls</p>
3:14	0.77	FRAC	WLT			0		POOH with Wireline.
4:00	2.50	FRAC	GRS			0		<p>Shut in well with 4100 psi. **** Begin NPT on Shell (WOW) *****</p> <p>Winds at 28 mph. Crane shut down operations. Wait on wind.</p> <p>Grease zipper manifold during down time.</p>
6:30	0.17	FRAC	WLF			1		<p>**** End NPT on Shell (WOW) ***** @ 06:30</p> <p>Take lubricator off well. Pressure test for frac.</p>
6:40	1.63	FRAC	FRT			0		<p>Stage 16 Summary</p> <p>Interval 17750 - 17886</p> <p>Open Well Pressure 3,820 psi</p> <p>Max Treating Pressure 9,266 psi</p> <p>Max Slurry Rate 60.1 bpm</p> <p>Average Treating Pressure 8,675 psi</p> <p>Average Slurry Rate 47.0 bpm</p> <p>Breakdown Pressure 8,185 psi</p> <p>Breakdown Rate 14 bpm</p> <p>Breakdown Volume 21 gal</p> <p>Avg HHP 9,993 hp</p> <p>Final ISIP 5,739 psi</p> <p>Frac Gradient 0.910 psi/ft</p> <p>Pad Volume 1,722 gal</p> <p>Main Body Volume 168,504 gal</p> <p>Flush Volume 28,350 gal</p> <p>100 MA-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 0 lbs</p> <p>100 M White Sand Pumped 426,670 lbs</p> <p>Proppant in Formation 426,670 lbs</p> <p>Avg Proppant Concentration 3.17 lb/gal</p> <p>Max Proppant Concentration 4.00 lb/gal</p> <p>Load to Recover (incl. pumpdown) 4,151 bbls</p> <p>Load to Recover w/o Acid 4,151 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 4,012 bbls</p> <p>20# Linear Fluid Pumped 0 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 139 bbls</p> <p>Pump down rate 10.0 bpm</p> <p>Max pump down pressure 6,500 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 1:39 hr:min</p> <p>Pumps Lost During Job 0</p>

EP WELLS DAILY OPERATIONS REPORT

Report 32

06/03/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Treatment Start Time 6:38 0:00 0:00 Treatment End Time 8:17 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA, and then as holds of 3.50 PPA, 3.75 PPA, and 4.00 PPA. Time for Prop on Perfs 28.0 minutes Time between Stages (TBF) 2:58 hrs/min
8:18	7.12	FRAC	FWL			0		Shut in frac @ 5544 psi. Wait on other pad operations.
15:25	0.42	FRAC	FWL			0		Make up wireline tools.
15:50	0.20	FRAC	FWL			0		Pressure test lubricator to 7500 psi. Open well with 3700 psi.
16:02	1.62	FRAC	WLT			0		Stage #17 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 17730' Perforate as follows: 17705' - 17706' 17660' - 17661' 17615' - 17616' 17570' - 17571' Stabilized pressure after perf.: 5100 psi Maximum pump down rate: 10 bpm Pump down volume: 127 bbl POOH
17:39	0.18	FRAC	WLF			0		Shut in well with 3700 psi. Grease UMV before closing. Handover well to frac.
17:50	2.00	FRAC	WLF			0		Wait on other operations.
19:50	1.83	FRAC	FRT			0		Open well with 4750 psi. Begin Stage 17 Frac. Stage 17 Summary Interval 17570 - 17706 Open Well Pressure 4,750 psi Max Treating Pressure 9,254 psi Max Slurry Rate 60.3 bpm Average Treating Pressure 8,663 psi Average Slurry Rate 43.6 bpm Breakdown Pressure 7,547 psi Breakdown Rate 7 bpm Breakdown Volume 7 gal Avg HHP 9,258 hp Final ISIP 5,747 psi Frac Gradient 0.911 psi/ft Pad Volume 1,092 gal Main Body Volume 176,988 gal Flush Volume 28,266 gal 100 M A-Z Sand Pumped 277,190 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 154,220 lbs Proppant in Formation 431,410 lbs Avg Proppant Concentration 2.96 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,341 bbls Load to Recover w/o Acid 4,341 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,214 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 127 bbls

EP WELLS DAILY OPERATIONS REPORT

Report 32

06/03/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Pump down rate 10.0 bpm Max pump down pressure 6,629 psi Fluid Temp 72.0 ?F Total Pump Time 1:48 hr:min Pumps Lost During Job 0 Treatment Start Time 19:51 Treatment End Time 21:39 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as holds of 3.50 PPA, and 3.00 PPA. -Encountered high pressure at 3.50 PPA, lowered proppant concentration to 3.00 PPA. Time for Prop on Perfs 23.0 minutes Time between Stages (TBF) 0:06 hrs/min
21:40	2.33	FRAC	FWL			0		Handover from Frac to WL. Wait on other pad ops.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	4.00	FRAC	FWL			0	Wait on other pad ops.
4:00	0.12	FRAC	FWL			0	PU WL tools. Stab lubricator.
4:07	0.10	FRAC	FWL			0	Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
4:13	0.87	FRAC	WLT			0	Stage #18 Plug and Perf Open well with 3700 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite "Ball In Place" frac plug. Tie into liner top @ 11,486'. Bring on pumps at 12,000'. Pump down as follows: 3 bpm @ 3800 psi at 12,000' 6 bpm @ 4000 psi at 12,100' 10 bpm @ 4700 psi at 12,200' Max rate: 10 bpm. Max pressure: 6600 psi Set plug @ 17550 ft w/ 2 bpm pumping Perforate as follows: 17525' - 17526' 17480' - 17481' 17435' - 17436' 17390' - 17391' Stabilized pressure after perforating: 4500 psi Pump down volume: 145 bbls
5:05		FRAC	WLT			0	POOH with Wireline.

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
06/03/2018 06:30	SHELL	Wait On Weather		WLF	N		0.17	0.17		OPEN
Description: WAIT ON WEATHER						Title: WOW				
Total							0.17	0.17		

EP WELLS DAILY OPERATIONS REPORT

Report 33

06/04/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	33.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	John Bevans / Ephraim Hathaway	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	1,822,243/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.42	LOT/FIT EMW(ppg)	
Daily Cost	152,524	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	32

Operations Summary

24 Hour Summary
Frac Stages 18-19
Update Since Report Time
24 Hour Forecast
Continue Frac ops

EP WELLS DAILY OPERATIONS REPORT

Report 33

06/04/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	4.00	FRAC	FWL			0		Wait on other pad ops.
4:00	0.12	FRAC	FWL			0		PU WL tools. Stab lubricator.
4:07	0.10	FRAC	FWL			0		Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
4:13	0.87	FRAC	WLT			0		Stage #18 Plug and Perf Open well with 3700 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite "Ball In Place" frac plug. Tie into liner top @ 11,486'. Bring on pumps at 12,000'. Pump down as follows: 3 bpm @ 3800 psi at 12,000' 6 bpm @ 4000 psi at 12,100' 10 bpm @ 4700 psi at 12,200' Max rate: 10 bpm. Max pressure: 6600 psi Set plug @ 17550 ft w/ 2 bpm pumping Perforate as follows: 17525' - 17526' 17480' - 17481' 17435' - 17436' 17390' - 17391' Stabilized pressure after perforating: 4500 psi Pump down volume: 145 bbls
5:05	0.80	FRAC	WLT			0		POOH with Wireline.
5:53	0.37	FRAC	WLT			0		Shut in well with 3800 psi. Bleed off & break lubricator. All shots fired.
6:15	0.17	FRAC	GRS			0		Grease crown valve.
6:25	3.22	FRAC	WLF			0		Wait on other operations.
9:38	1.47	FRAC	WLF			0		Finish greasing zipper manifold. Prime and pressure test frac.
11:06	1.68	FRAC	FRT			0		Stage 18 Summary Interval 17390 - 17526 Open Well Pressure 3,436 psi Max Treating Pressure 9,231 psi Max Slurry Rate 58.7 bpm Average Treating Pressure 8,656 psi Average Slurry Rate 47.5 bpm Breakdown Pressure 7,579 psi Breakdown Rate 13 bpm Breakdown Volume 22 gal Avg HHP 10,077 hp Final ISIP 5,709 psi Frac Gradient 0.908 psi/ft Pad Volume 1,596 gal Main Body Volume 172,536 gal Flush Volume 28,140 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 206,640 lbs 100 M White Sand Pumped 209,880 lbs Proppant in Formation 416,520 lbs Avg Proppant Concentration 2.99 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,253 bbls Load to Recover w/o Acid 4,253 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,108 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 145 bbls Pump down rate 11.0 bpm Max pump down pressure 6,600 psi

EP WELLS DAILY OPERATIONS REPORT

Report 33

06/04/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Fluid Temp 72.0 ?F Total Pump Time 1:39 hr:min Pumps Lost During Job 0 Treatment Start Time 11:06 0:00 0:00 Treatment End Time 12:45 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as a hold of 3.50 PPA. Time for Prop on Perfs 24.0 minutes Time between Stages (TBF) 2:47 hrs/min
12:47	0.13	FRAC	FWL			0		Shut in frac.
12:55	0.57	FRAC	FWL			0		Wait on other operations.
13:29	0.27	FRAC	FWL			0		Handover well to wireline.
13:45	0.08	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 4600 psi.
13:50	1.55	FRAC	WLT			0		Stage #19 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 17370' Perforate as follows: 17345' - 17346' 17300' - 17301' 17255' - 17256' 17210' - 17211' Stabilized pressure after perf.: 5650 psi Maximum pump down rate: 10 bpm Pump down volume: 114 bbl POOH
15:23	0.12	FRAC	WLF			0		Shut in well with 5600 psi. Grease UMW shut.
15:30	3.17	FRAC	WLF			0		Wait on other operations.
18:40	1.57	FRAC	FRT			0		Open well with 4062 psi. Begin Stage 19 Frac. Stage 19 Summary Interval 17210 - 17346 Open Well Pressure 3,821 psi Max Treating Pressure 9,223 psi Max Slurry Rate 58.2 bpm Average Treating Pressure 8,747 psi Average Slurry Rate 49.3 bpm Breakdown Pressure 7,318 psi Breakdown Rate 10 bpm Breakdown Volume 10 gal Avg HHP 10,569 hp Final ISIP 5,964 psi Frac Gradient 0.929 psi/ft Pad Volume 714 gal Main Body Volume 169,428 gal Flush Volume 27,972 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 416,820 lbs 100 M White Sand Pumped 0 lbs Proppant in Formation 416,820 lbs Avg Proppant Concentration 3.07 lb/gal Max Proppant Concentration 3.75 lb/gal Load to Recover (incl. pumpdown) 4,148 bbls Load to Recover w/o Acid 4,148 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,034 bbls 20# Linear Fluid Pumped 0 bbls

EP WELLS DAILY OPERATIONS REPORT

Report 33

06/04/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 114 bbls Pump down rate 10.0 bpm Max pump down pressure 6,038 psi Fluid Temp 72.0 ?F Total Pump Time 1:33 hr:min Pumps Lost During Job 0 Treatment Start Time 18:41 Treatment End Time 20:14 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as holds of 3.50 PPA and 3.75 PPA. Time for Prop on Perfs 20.0 minutes Time between Stages (TBF) 0:03 hrs/min
20:14	2.62	FRAC	FWL			0		Handover from Frac to WL. Wait on other pad ops.
22:51	0.12	FRAC	FWL			0		PU WL tools. Stab lubricator.
22:58	0.12	FRAC	FWL			0		Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
23:05	0.85	FRAC	WLT			0		Stage #20 Plug and Perf Open well with 4300 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite "Ball In Place" frac plug. Set plug @ 17188 ft w/ 2 bpm pumping Perforate as follows: 17165' - 17166' 17120' - 17121' 17077' - 17078' 17030' - 17031' Stabilized pressure after perforating: 5100 psi Pump down volume: 122 bbls
23:56	0.07	FRAC	WLT			0		POOH with Wireline.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.62	FRAC	WLT			0	Continue to POOH with Wireline from Stage 20 P&P.
0:37	0.05	FRAC	WLT			0	Shut in well with 4050 psi. Bleed off & break lubricator. All shots fired. Secure crown and wing valves.
0:40	0.25	FRAC	GRS			0	Grease UMW
0:55	2.20	FRAC	WLF			0	Handover from WL to Frac. Wait on other pad ops.
3:07		FRAC	FRT			0	Open well with 3839 psi. Begin Stage 20 Frac.

EP WELLS DAILY OPERATIONS REPORT

Report 34

06/05/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	34.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	John Bevans / Ephraim Hathaway	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	2,034,895/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.47	LOT/FIT EMW(ppg)	
Daily Cost	212,630	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	33

Operations Summary

24 Hour Summary
Frac Stages 20-22
Update Since Report Time
24 Hour Forecast
Continue Frac ops

EP WELLS DAILY OPERATIONS REPORT

Report 34

06/05/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.62	FRAC	WLT			0		Continue to POOH with Wireline from Stage 20 P&P.
0:37	0.05	FRAC	WLT			0		Shut in well with 4050 psi. Bleed off & break lubricator. All shots fired. Secure crown and wing valves.
0:40	0.25	FRAC	GRS			0		Grease UMW
0:55	2.20	FRAC	WLF			0		Handover from WL to Frac. Wait on other pad ops.
3:07	1.55	FRAC	FRT			0		<p>Open well with 3839 psi. Begin Stage 20 Frac.</p> <p>Stage 20 Summary</p> <p>Interval 17030 - 17166</p> <p>Open Well Pressure 3,991 psi</p> <p>Max Treating Pressure 9,258 psi</p> <p>Max Slurry Rate 61.4 bpm</p> <p>Average Treating Pressure 8,787 psi</p> <p>Average Slurry Rate 49.9 bpm</p> <p>Breakdown Pressure 8,034 psi</p> <p>Breakdown Rate 8 bpm</p> <p>Breakdown Volume 9 gal</p> <p>Avg HHP 10,747 hp</p> <p>Final ISIP 5,603 psi</p> <p>Frac Gradient 0.899 psi/ft</p> <p>Pad Volume 1,176 gal</p> <p>Main Body Volume 167,244 gal</p> <p>Flush Volume 27,888 gal</p> <p>100 M A-Z Sand Pumped 43,680 lbs</p> <p>100 M Brown Sand Pumped 338,100 lbs</p> <p>100 M White Sand Pumped 44,900 lbs</p> <p>Proppant in Formation 426,680 lbs</p> <p>Avg Proppant Concentration 3.14 lb/gal</p> <p>Max Proppant Concentration 3.75 lb/gal</p> <p>Load to Recover (incl. pumpdown) 4,104 bbls</p> <p>Load to Recover w/o Acid 4,104 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 3,982 bbls</p> <p>20# Linear Fluid Pumped 0 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 122 bbls</p> <p>Pump down rate 11.0 bpm</p> <p>Max pump down pressure 7,100 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 1:31 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 3:08</p> <p>Treatment End Time 4:39</p> <p>- Ball in place plug was utilized.</p> <p>- Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as holds of 3.50 PPA and 3.75 PPA.</p> <p>Time for Prop on Perfs 20.0 minutes</p> <p>Time between Stages (TBF) 0:03 hrs/min</p>
4:40	2.23	FRAC	FWL			0		Handover from Frac to WL. Wait on other pad ops.
6:54	0.13	FRAC	FWL			0		Pressure test lubricator to 7000 psi.
7:02	1.80	FRAC	WLT			0		<p>Open well with 4200 psi.</p> <p>Stage #21 Plug and Perf.</p> <p>RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball drop frac plug.</p> <p>Set plug @ 17010'</p> <p>Perforate as follows:</p> <p>16985' - 16986'</p> <p>16940' - 16941'</p> <p>16895' - 16896'</p>

EP WELLS DAILY OPERATIONS REPORT

Report 34

06/05/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								16850' - 16851' Stabilized pressure after perf.: 5215 psi Maximum pump down rate: 9 bpm Pump down volume: 130 bbl" POOH Shut in well with 4200 psi.
8:50	5.20	FRAC	WLF			0		Waiting on other pad ops
14:02	1.88	FRAC	FRT			0		Frac stage 21 Stage 21 Summary Interval 16850 - 16986 Open Well Pressure 3,601 psi Max Treating Pressure 9,338 psi Max Slurry Rate 57.6 bpm Average Treating Pressure 8,759 psi Average Slurry Rate 42.6 bpm Breakdown Pressure 7,840 psi Breakdown Rate 9 bpm Breakdown Volume 14 gal Avg HHP 9,145 hp Final ISIP 5,547 psi Frac Gradient 0.894 psi/ft Pad Volume 2,436 gal Main Body Volume 171,570 gal Flush Volume 27,762 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 333,520 lbs 100 M White Sand Pumped 88,080 lbs Proppant in Formation 421,600 lbs Avg Proppant Concentration 3.05 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,215 bbls Load to Recover w/o Acid 4,215 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,085 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 130 bbls Pump down rate 9.0 bpm Max pump down pressure 6,493 psi Fluid Temp 72.0 ?F Total Pump Time 1:53 hr:min Pumps Lost During Job 0 Treatment Start Time 14:02 Treatment End Time 15:55 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as a hold of 3.50 PPA. Time for Prop on Perfs 28.5 minutes Time between Stages (TBF) 3:13 hrs/min
15:55	3.02	FRAC	FWL			0		Handover from Frac to WL. Wait on other pad ops.
18:56	0.10	FRAC	FWL			0		PU WL tools. Stab lubricator.
19:02	0.08	FRAC	FWL			0		Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
19:07	0.88	FRAC	WLT			0		Stage #22 Plug and Perf Open well with 4200 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite "Ball In Place" frac plug. Set plug @ 16830 ft w/ 2 bpm pumping Perforate as follows:

EP WELLS DAILY OPERATIONS REPORT

Report 34

06/05/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								16805' - 16806' 16760' - 16761' 16716' - 16717' (+1' for collar) 16670' - 16671' Stabilized pressure after perforating: 4350 psi Pump down volume: 139 bbls
20:00	0.60	FRAC	WLT			0		POOH with Wireline. *** Had a leak at Rig Lok after starting up out of hole. Rushed WL back to surface ****
20:36	0.48	FRAC	WLT			0		Shut in well with 4200 psi. Bleed off & break lubricator. All shots fired. Secure crown and wing valves. Sat lubricator down to inspect o-rings on stabbing nipple. O-rings look good. Find o-ring on Bowen connection below BOP's and at top of Rig lok stabbing nipple bad. Change o-rings and tighten connection good.
21:05	1.68	FRAC	WLF			0		Handover from WL to Frac. Wait on other pad ops.
22:46	1.23	FRAC	FRT			0		Open well with 3858 psi. Begin Stage 22 Frac. Stage 22 Summary Interval 16670 - 16806 Open Well Pressure 3,858 psi Max Treating Pressure 9,171 psi Max Slurry Rate 60.4 bpm Average Treating Pressure 8,667 psi Average Slurry Rate 52.3 bpm Breakdown Pressure 6,340 psi Breakdown Rate 10 bpm Breakdown Volume 27 gal Avg HHP 11,110 hp Final ISIP 5,552 psi Frac Gradient 0.895 psi/ft Pad Volume 1,008 gal Main Body Volume 165,228 gal Flush Volume 27,720 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 346,040 lbs 100 M White Sand Pumped 81,600 lbs Proppant in Formation 427,640 lbs Avg Proppant Concentration 3.21 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,045 bbls Load to Recover w/o Acid 4,045 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,934 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 111 bbls Pump down rate 11.0 bpm Max pump down pressure 6,200 psi Fluid Temp 72.0 ?F Total Pump Time 1:26 hr:min Pumps Lost During Job 0 Treatment Start Time 22:47 Treatment End Time 00:13 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as holds of 3.50 PPA , 3.75 PPA & 4.00 PPA. Time for Prop on Perfs 20.0 minutes Time between Stages (TBF) 0:03 hrs/min
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
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EP WELLS DAILY OPERATIONS REPORT

Report 34

06/05/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.23	FRAC	FRT			0	Complete Stage 22 Frac. See 06/05/18 report for details.
0:14	3.50	FRAC	FWL			0	Handover from Frac to WL. Wait on other pad ops.
3:44	0.10	FRAC	FWL			0	PU WL tools. Stab lubricator
3:50	0.17	FRAC	FWL			0	Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
4:00		FRAC	WLT			0	

EP WELLS DAILY OPERATIONS REPORT

Report 35

06/06/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	35.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	M. Hank Persaud / Mitchell Collins	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	WW Horton / Jeremy Harp / Eric Brun	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	2,248,997/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.52	LOT/FIT EMW(ppg)	
Daily Cost	213,410	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	34

Operations Summary

24 Hour Summary
Frac stages 23-25
Update Since Report Time
24 Hour Forecast
Continue frac operations

EP WELLS DAILY OPERATIONS REPORT

Report 35

06/06/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.23	FRAC	FRT			0		Complete Stage 22 Frac. See 06/05/18 report for details.
0:14	3.50	FRAC	FWL			0		Handover from Frac to WL. Wait on other pad ops.
3:44	0.10	FRAC	FWL			0		PU WL tools. Stab lubricator
3:50	0.17	FRAC	FWL			0		Fill and pressure test lubricator to 8000 psi. Good test. Equalize to 4500 psi.
4:00	0.90	FRAC	WLT			0		Stage #23 Plug and Perf Open well with 4400 psi and RIH with (4) 2' Keane guns: 2.75" OD HSC at 6 SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite "Ball In Place" frac plug. Set plug @ 16650 ft w/ 2 bpm pumping Perforate as follows: 16625' - 16626' 16580' - 16581' 16535' - 16536' 16490' - 16491' Stabilized pressure after perforating: 4700 psi Pump down volume: 102 bbls
4:54	0.72	FRAC	WLT			0		POOH with Wireline.
5:37	0.05	FRAC	WLT			0		Shut in well with 4475 psi. Bleed off & break lubricator. All shots fired. Secure crown valve.
5:40	0.22	FRAC	GRS			0		Grease UM and wing valves.
5:53	2.12	FRAC	WLF			0		Handover from WL to Frac. Wait on other pad ops.
8:00	1.67	FRAC	FRT			0		University 20 PW Unit 1007H Stage 23 Summary Interval 16490 - 16626 Open Well Pressure 4,145 psi Max Treating Pressure 9,207 psi Max Slurry Rate 59.7 bpm Average Treating Pressure 8,676 psi Average Slurry Rate 48.0 bpm Breakdown Pressure 8,152 psi Breakdown Rate 12 bpm Breakdown Volume 21 gal Avg HHP 10,207 hp Final ISIP 5,609 psi Frac Gradient 0.899 psi/ft Pad Volume 1,848 gal Main Body Volume 169,050 gal Flush Volume 27,468 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 383,870 lbs 100 M White Sand Pumped 43,540 lbs Proppant in Formation 427,410 lbs Avg Proppant Concentration 3.12 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,127 bbls Load to Recover w/o Acid 4,127 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,025 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 102 bbls Pump down rate 11.0 bpm Max pump down pressure 6,100 psi Fluid Temp 72.0 °F Total Pump Time 1:38 hr:min Pumps Lost During Job 0 Treatment Start Time 8:01 0:00 0:00

EP WELLS DAILY OPERATIONS REPORT

Report 35

06/06/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Treatment End Time 9:39 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as holds of 3.50 PPA, 3.75 PPA & 4.00 PPA. Time for Prop on Perfs 29.0 minutes Time between Stages (TBF) 0:12 hrs/min
9:40	3.80	FRAC	FWL			0		Other pad ops.
13:28	0.50	FRAC	FWL			0		13:28 Handover well to wireline. 13:53 Pressure test lubricator to 7000 psi. 13:58 Open well with 4000 psi.
13:58	1.92	FRAC	WLT			0		14:49 "Stage #24 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 16470' Perforate as follows: 16445' - 16446' 16400' - 16401' 16357' - 16358' 16310' - 16311' Stabilized pressure after perf.: 4600 psi Maximum pump down rate: 9 bpm Pump down volume: 109 bbl" 14:54 POOH
15:53	0.20	FRAC	WLF			0		15:53 Shut in well with 4200 psi. 16:05 Handover well to frac.
16:05	0.17	FRAC	FRP			0		Frac prep.
16:15	1.67	FRAC	FRT			0		University 20 PW Unit 1007H Stage 24 Summary Interval 16310 - 16446 Open Well Pressure 4,052 psi Max Treating Pressure 9,306 psi Max Slurry Rate 59.6 bpm Average Treating Pressure 8,817 psi Average Slurry Rate 46.5 bpm Breakdown Pressure 7,695 psi Breakdown Rate 8 bpm Breakdown Volume 14 gal Avg HHP 10,049 hp Final ISIP 5,360 psi Frac Gradient 0.879 psi/ft Pad Volume 1,932 gal Main Body Volume 159,894 gal Flush Volume 27,384 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 394,580 lbs 100 M White Sand Pumped 21,680 lbs Proppant in Formation 416,260 lbs Avg Proppant Concentration 3.25 lb/gal Max Proppant Concentration 3.75 lb/gal Load to Recover (incl. pumpdown) 3,916 bbls Load to Recover w/o Acid 3,916 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,807 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 109 bbls Pump down rate 9.0 bpm Max pump down pressure 6,164 psi

EP WELLS DAILY OPERATIONS REPORT

Report 35

06/06/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Fluid Temp 72.0 ?F Total Pump Time 1:37 hr:min Pumps Lost During Job 0 Treatment Start Time 16:16 0:00 0:00 Treatment End Time 17:53 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as holds of 3.50 PPA & 3.75 PPA. Time for Prop on Perfs 25.0 minutes Time between Stages (TBF) 0:29 hrs/min
17:55	1.58	FRAC	FWL			0		Other pad ops. Rehead WL and frac pump maintenance.
19:30	1.67	FRAC	WLT			0		17:55 Handover well to wireline. 19:30 Pressure test lubricator to 7000 psi. 19:32 Open well with 4825 psi. 20:20 "Stage #25 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 16290' Perforate as follows: 16265' - 16266' 16220' - 16221' 16175' - 16176' 16130' - 16131' Stabilized pressure after perf.: 5050 psi Maximum pump down rate: 11 bpm Pump down volume: 104 bbl" 20:25 POOH 21:00 Shut in well with 4700 psi. 21:10 Handover well to frac.
21:10	0.40	FRAC	WLF			0		Other pad ops.
21:34	1.65	FRAC	FRT			0		University 20 PW Unit 1007H Stage 25 Summary Interval 16130 - 16266 Open Well Pressure 4,484 psi Max Treating Pressure 9,371 psi Max Slurry Rate 58.8 bpm Average Treating Pressure 8,758 psi Average Slurry Rate 45.8 bpm Breakdown Pressure 8,140 psi Breakdown Rate 10 bpm Breakdown Volume 11 gal Avg HHP 9,831 hp Final ISIP 5,394 psi Frac Gradient 0.881 psi/ft Pad Volume 924 gal Main Body Volume 164,010 gal Flush Volume 27,258 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 129,360 lbs 100 M White Sand Pumped 293,100 lbs Proppant in Formation 422,460 lbs Avg Proppant Concentration 3.17 lb/gal Max Proppant Concentration 3.75 lb/gal Load to Recover (incl. pumpdown) 4,009 bbls Load to Recover w/o Acid 4,009 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,905 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls

EP WELLS DAILY OPERATIONS REPORT

Report 35

06/06/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								20# Crosslink Fluid Pumped 0 bbls Pump down volume 104 bbls Pump down rate 11.0 bpm Max pump down pressure 6,000 psi Fluid Temp 72.0 ?F Total Pump Time 1:39 hr:min Pumps Lost During Job 0 Treatment Start Time 21:34 0:00 0:00 Treatment End Time 23:13 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as holds of 3.50 PPA & 3.75 PPA. - Time for Prop on Perfs 21.0 minutes Time between Stages (TBF) 0:05 hrs/min
23:13	0.20	FRAC	FWL			0		Other pad ops.
23:25	0.58	FRAC	WLT			0		RIH w/ WL for stage 26
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.47	FRAC	WLT			0	23:30 Handover well to wireline. 23:40 Pressure test lubricator to 7000 psi. 23:45 Open well with 5100 psi. 0:31 "Stage #26 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 16110' Perforate as follows: 16085' - 16086' 16040' - 16041' 15998' - 15999' 15950' - 15951' Stabilized pressure after perf.: 5050 psi Maximum pump down rate: 10 bpm Pump down volume: 89 bbl" 0:35 POOH 1:24 Shut in well with 4925 psi. 1:28 Handover well to frac.
1:28	0.20	FRAC	WLF			0	Other pad operations.
1:40	1.93	FRAC	FRT			0	University 20 PW Unit 1007H Stage 26 Summary Interval 15950 - 16086 Open Well Pressure 4,725 psi Max Treating Pressure 9,326 psi Max Slurry Rate 58.9 bpm Average Treating Pressure 8,566 psi Average Slurry Rate 51.8 bpm Breakdown Pressure 8,083 psi Breakdown Rate 11 bpm Breakdown Volume 8 gal Avg HHP 10,875 hp Final ISIP 5,625 psi Frac Gradient 0.901 psi/ft Pad Volume 882 gal

EP WELLS DAILY OPERATIONS REPORT

Report 35

06/06/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							Main Body Volume 188,370 gal Flush Volume 27,132 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 345,600 lbs 100 M White Sand Pumped 80,460 lbs Proppant in Formation 426,060 lbs Avg Proppant Concentration 2.75 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,578 bbls Load to Recover w/o Acid 4,578 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,485 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 93 bbls Pump down rate 10.0 bpm Max pump down pressure 6,100 psi Fluid Temp 72.0 ?F Total Pump Time 1:56 hr:min Pumps Lost During Job 0 Treatment Start Time 1:40 0:00 0:00 Treatment End Time 3:36 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 2.40 PPA and then as holds of 1.0 PPA then the ramp was restarted from 0.50 PPA to 3.50 PPA and then holds of 3.0 PPA, 3.50 PPA & 3.75 PPA. - we shut down during 2.0 PPA on the ramp when the blender operator reported that he was losing his tub. - Time for Prop on Perfs 22.0 minutes Time between Stages (TBF) 0:19 hrs/min ***NPT Dutcher-Phipps*** Leak in fuel line
3:36		FRAC	FWL			0	

EP WELLS DAILY OPERATIONS REPORT

Report 36

06/07/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	36.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	M. Hank Persaud / Mitchell Collins	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Jeremy Harp / Eric Brunet	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	5.40/22.50	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	2,466,104/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.57	LOT/FIT EMW(ppg)	
Daily Cost	215,650	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	35

Operations Summary

24 Hour Summary
Frac Stages 26-28
Update Since Report Time
24 Hour Forecast
Continue frac operations.

EP WELLS DAILY OPERATIONS REPORT

Report 36

06/07/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.47	FRAC	WLT			0		<p>23:30 Handover well to wireline. 23:40 Pressure test lubricator to 7000 psi. 23:45 Open well with 5100 psi. 0:31 "Stage #26 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.</p> <p>Set plug @ 16110' Perforate as follows: 16085' - 16086' 16040' - 16041' 15998' - 15999' 15950' - 15951' Stabilized pressure after perf.: 5050 psi Maximum pump down rate: 10 bpm Pump down volume: 89 bbl" 0:35 POOH 1:24 Shut in well with 4925 psi. 1:28 Handover well to frac.</p>
1:28	0.20	FRAC	WLF			0		Other pad operations.
1:40	1.93	FRAC	FRT			0		<p>University 20 PW Unit 1007H Stage 26 Summary</p> <p>Interval 15950 - 16086</p> <p>Open Well Pressure 4,725 psi Max Treating Pressure 9,326 psi Max Slurry Rate 58.9 bpm Average Treating Pressure 8,566 psi Average Slurry Rate 51.8 bpm Breakdown Pressure 8,083 psi Breakdown Rate 11 bpm Breakdown Volume 8 gal Avg HHP 10,875 hp Final ISIP 5,625 psi Frac Gradient 0.901 psi/ft Pad Volume 882 gal Main Body Volume 188,370 gal Flush Volume 27,132 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 345,600 lbs 100 M White Sand Pumped 80,460 lbs Proppant in Formation 426,060 lbs Avg Proppant Concentration 2.75 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,578 bbls Load to Recover w/o Acid 4,578 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,485 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 93 bbls Pump down rate 10.0 bpm Max pump down pressure 6,100 psi Fluid Temp 72.0 ?F Total Pump Time 1:56 hr:min Pumps Lost During Job 0 Treatment Start Time 1:40 0:00 0:00 Treatment End Time 3:36 0:00 0:00</p> <p>- Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 2.40 PPA and then as holds of 1.0 PPA then the ramp was restarted from 0.50 PPA to 3.50 PPA and then holds of 3.0 PPA, 3.50 PPA & 3.75 PPA.</p>

EP WELLS DAILY OPERATIONS REPORT

Report 36

06/07/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- we shut down during 2.0 PPA on the ramp when the blender operator reported that he was losing his tub. -
								Time for Prop on Perfs 22.0 minutes Time between Stages (TBF) 0:19 hrs/min
3:36	5.40	FRAC	FWL			1		***NPT Dutcher-Phipps*** Leak in fuel line. Complete frac stage. Perform frac maintenance. Grease zipper and re-head wireline (out of order).
9:00	0.25	FRAC	FWL			0		7-step / regroup pause with WL group.
9:15	0.38	FRAC	FWL			0		9:15 Handover well to wireline. 9:30 Pressure test lubricator to 7000 psi. 9:38 Open well with 4500 psi.
9:38	2.02	FRAC	WLT			0		10:26 "Stage #27 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 15930' Perforate as follows: 15905' - 15906' 15860' - 15861' 15815' - 15816' 15770' - 15771' Stabilized pressure after perf.: 5200 psi Maximum pump down rate: 9 bpm Pump down volume: 100 bbl" 10:30 POOH
11:39	0.10	FRAC	WLF			0		11:39 Shut in well with 4500 psi. 11:45 Handover well to frac.
11:45	0.17	FRAC	FRP			0		Frac prep.
11:55	1.58	FRAC	FRT			0		University 20 PW Unit 1007H Stage 27 Summary Interval 15770 - 15906 Open Well Pressure 4,343 psi Max Treating Pressure 9,318 psi Max Slurry Rate 61.1 bpm Average Treating Pressure 8,674 psi Average Slurry Rate 51.4 bpm Breakdown Pressure 7,812 psi Breakdown Rate 9 bpm Breakdown Volume 14 gal Avg HHP 10,928 hp Final ISIP 5,732 psi Frac Gradient 0.910 psi/ft Pad Volume 1,302 gal Main Body Volume 167,412 gal Flush Volume 27,048 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 295,860 lbs 100 M White Sand Pumped 135,120 lbs Proppant in Formation 430,980 lbs Avg Proppant Concentration 3.16 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,086 bbls Load to Recover w/o Acid 4,086 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,986 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls

EP WELLS DAILY OPERATIONS REPORT

Report 36

06/07/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Pump down volume 100 bbls Pump down rate 9.0 bpm Max pump down pressure 5,403 psi Fluid Temp 72.0 ?F Total Pump Time 1:31 hr:min Pumps Lost During Job 0 Treatment Start Time 11:59 0:00 0:00 Treatment End Time 13:30 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as holds of 3.50 PPA, 3.75 PPA & 4.00 PPA. - FR was rased to a 0.75 gpt during 3.50 PPA sand. Time for Prop on Perfs 23.0 minutes Time between Stages (TBF) 6:40 hrs/min
13:30	0.42	FRAC	FWL			0		Other pad ops.
13:55	0.25	FRAC	FWL			0		13:55 Handover well to wireline. 14:05 Pressure test lubricator to 7000 psi. 14:10 Open well with 5100 psi.
14:10	1.92	FRAC	WLT			0		15:05 "Stage #28 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 15750' Perforate as follows: 15725' - 15726' 15680' - 15681' 15635' - 15636' 15590' - 15591' Stabilized pressure after perf.: 5000 psi Maximum pump down rate: 9 bpm Pump down volume: 94 bbl" 15:11 POOH
16:05	0.08	FRAC	WLF			0		16:05 Shut in well with 5000 psi. 16:10 Handover well to frac.
16:10	2.05	FRAC	WLF			0		Other pad ops.
18:13	1.63	FRAC	FRT			0		University 20 PW Unit 1007H Stage 28 Summary Interval 15590 - 15726 Open Well Pressure 4,635 psi Max Treating Pressure 9,247 psi Max Slurry Rate 59.1 bpm Average Treating Pressure 8,596 psi Average Slurry Rate 46.3 bpm Breakdown Pressure 8,225 psi Breakdown Rate 10 bpm Breakdown Volume 7 gal Avg HHP 9,755 hp Final ISIP 5,554 psi Frac Gradient 0.895 psi/ft Pad Volume 1,008 gal Main Body Volume 164,430 gal Flush Volume 26,922 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 259,260 lbs 100 M White Sand Pumped 155,360 lbs Proppant in Formation 414,620 lbs Avg Proppant Concentration 3.08 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,009 bbls Load to Recover w/o Acid 4,009 bbls 15% HCL Spearhead 0 gal

EP WELLS DAILY OPERATIONS REPORT

Report 36

06/07/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Slickwater Fluid Pumped 3,915 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 94 bbls Pump down rate 9.0 bpm Max pump down pressure 6,040 psi Fluid Temp 72.0 ?F Total Pump Time 1:38 hr:min Pumps Lost During Job 2 Treatment Start Time 18:13 0:00 0:00 Treatment End Time 19:51 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as holds of 3.50 PPA - Pumps 10077 and pump 10090 were taken out during the stage for fluid end maintenance. Time for Prop on Perfs 19.0 minutes Time between Stages (TBF) 1:12 hrs/min
19:51	4.15	FRAC	FWL			0		Other pad operations.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	2.75	FRAC	FWL			0	Other pad operations.
2:45	2.00	FRAC	WLT			0	2:45 Handover well to wireline. 3:05 Pressure test lubricator to 8000 psi. 3:10 Open well with 5100 psi. 3:52 "Stage #29 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 15570' Perforate as follows: 15545' - 15546' 15500' - 15501' 15455' - 15456' 15410' - 15411' Stabilized pressure after perf.: 5400 psi Maximum pump down rate: 10 bpm Pump down volume: 87 bbl" 3:56 POOH 4:30 Shut in well with 4425 psi. 4:45 Handover well to frac.

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
06/07/2018 03:36	DUTCHER-PHIPPS CRANE AND RIGGING CO	Wait On Cranes		FWL	N		2.40	5.40	1	OPEN
Description: Issue with fuel line. Get parts and repair.						Title: Crane issues.				
Total							2.40	5.40		

EP WELLS DAILY OPERATIONS REPORT

Report 37

06/08/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	37.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	M. Hank Persaud / Mitchell Collins	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Jeremy Harp / Eric Brunet	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	2,613,142/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.60	LOT/FIT EMW(ppg)	
Daily Cost	147,038	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	36

Operations Summary

24 Hour Summary
Frac Stage 29-30
Update Since Report Time
24 Hour Forecast
Continue frac operations

EP WELLS DAILY OPERATIONS REPORT

Report 37

06/08/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.75	FRAC	FWL			0		Other pad operations.
2:45	2.00	FRAC	WLT			0		2:45 Handover well to wireline. 3:05 Pressure test lubricator to 8000 psi. 3:10 Open well with 5100 psi. 3:52 "Stage #29 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 15570' Perforate as follows: 15545' - 15546' 15500' - 15501' 15455' - 15456' 15410' - 15411' Stabilized pressure after perf.: 5400 psi Maximum pump down rate: 10 bpm Pump down volume: 87 bbl" 3:56 POOH 4:30 Shut in well with 4425 psi. 4:45 Handover well to frac.
4:45	0.25	FRAC	WLF			0		Other pad operations
5:00	1.50	FRAC	FRT			0		University 20 PW Unit 1007H Stage 29 Summary Interval 15410 - 15546 Open Well Pressure 4,330 psi Max Treating Pressure 9,193 psi Max Slurry Rate 59.2 bpm Average Treating Pressure 8,669 psi Average Slurry Rate 57.6 bpm Breakdown Pressure 5,247 psi Breakdown Rate 3 bpm Breakdown Volume 8 gal Avg HHP 12,239 hp Final ISIP 5,867 psi Frac Gradient 0.921 psi/ft Pad Volume 924 gal Main Body Volume 153,898 gal Flush Volume 26,796 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 381,060 lbs 100 M White Sand Pumped 42,020 lbs Proppant in Formation 423,080 lbs Avg Proppant Concentration 3.45 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 3,751 bbls Load to Recover w/o Acid 3,751 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,664 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 87 bbls Pump down rate 10.0 bpm Max pump down pressure 7,200 psi Fluid Temp 72.0 ?F Total Pump Time 1:29 hr:min Pumps Lost During Job 0 Treatment Start Time 5:01 0:00 0:00 Treatment End Time 6:30 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 4.00 PPA and then a hold of 4.00 PPA .

EP WELLS DAILY OPERATIONS REPORT

Report 37

06/08/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Time for Prop on Perfs 17.0 minutes Time between Stages (TBF) 1:00 hrs/min
6:30	8.00	FRAC	FWL			0		Other pad ops.
14:30	0.33	FRAC	FWL			0		14:30 Handover well to wireline. 14:44 Pressure test lubricator to 7000 psi. 14:50 Open well with 4200 psi.
14:50	1.70	FRAC	WLT			0		15:36 "Stage #30 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 15390' Perforate as follows: 15365' - 15366' 15322' - 15323' 15275' - 15276' 15230' - 15231' Stabilized pressure after perf.: 5214 psi Maximum pump down rate: 9 bpm Pump down volume: 88 bbl"
16:32	0.10	FRAC	WLF			0		16:32 Shut in well with 4050 psi. 16:38 Handover well to frac.
16:38	0.12	FRAC	FRP			0		Frac prep.
16:45	1.75	FRAC	FRT			0		University 20 PW Unit 1007H Stage 30 Summary Interval 15230 - 15366 Open Well Pressure 4,204 psi Max Treating Pressure 9,401 psi Max Slurry Rate 60.7 bpm Average Treating Pressure 8,471 psi Average Slurry Rate 47.0 bpm Breakdown Pressure 7,565 psi Breakdown Rate 9 bpm Breakdown Volume 12 gal Avg HHP 9,758 hp Final ISIP 5,794 psi Frac Gradient 0.915 psi/ft Pad Volume 966 gal Main Body Volume 169,722 gal Flush Volume 26,670 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 297,380 lbs 100 M White Sand Pumped 127,660 lbs Proppant in Formation 425,040 lbs Avg Proppant Concentration 3.03 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,129 bbls Load to Recover w/o Acid 4,129 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,041 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 88 bbls Pump down rate 9.0 bpm Max pump down pressure 6,973 psi Fluid Temp 72.0 ?F Total Pump Time 1:39 hr:min Pumps Lost During Job 0 Treatment Start Time 16:50 0:00 0:00 Treatment End Time 18:29 0:00 0:00

EP WELLS DAILY OPERATIONS REPORT

Report 37

06/08/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as holds of 3.50 PPA Time for Prop on Perfs 21.0 minutes Time between Stages (TBF) 0:54 hrs/min
18:30	0.83	FRAC	FWL			0		Other pad operations
19:20	4.67	FRAC	FWL			0		***NPT Weather*** See1004H Report
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.08	FRAC	FWL			0	***End NPT Weather***
0:05	3.33	FRAC	FWL			0	Other pad operations.
3:25	0.33	FRAC	FWL			0	3:25 Handover well to wireline. 3:38 Pressure test lubricator to 7000 psi. 3:45 Open well with 4200 psi.
3:45		FRAC	WLT			0	4:27 "Stage #31 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 15210' Perforate as follows: 15185' - 15186' 15140' - 15141' 15095' - 15096' 15050' - 15051' Stabilized pressure after perf.: 5270 psi Maximum pump down rate: 10 bpm Pump down volume: 77 bbl" 4:31 POOH

EP WELLS DAILY OPERATIONS REPORT

Report 38

06/09/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	38.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	M. Hank Persaud / Mitchell Collins	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Jeremy Harp / Eric Brunet	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	2,760,337/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.64	LOT/FIT EMW(ppg)	
Daily Cost	147,201	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	37

Operations Summary

24 Hour Summary
Frac stages 31-32
Update Since Report Time
24 Hour Forecast
Continue frac operations.

EP WELLS DAILY OPERATIONS REPORT

Report 38

06/09/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.08	FRAC	FWL			0		***End NPT Weather***
0:05	3.33	FRAC	FWL			0		Other pad operations.
3:25	0.33	FRAC	FWL			0		3:25 Handover well to wireline. 3:38 Pressure test lubricator to 7000 psi. 3:45 Open well with 4200 psi.
3:45	1.42	FRAC	WLT			0		4:27 "Stage #31 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 15210' Perforate as follows: 15185' - 15186' 15140' - 15141' 15095' - 15096' 15050' - 15051' Stabilized pressure after perf.: 5270 psi Maximum pump down rate: 10 bpm Pump down volume: 77 bbl" 4:31 POOH
5:10	0.13	FRAC	WLF			0		5:10 Shut in well with 4250 psi. 5:18 Handover well to frac.
5:18	0.37	FRAC	FRP			0		Frac prep.
5:40	1.58	FRAC	FRT			0		University 20 PW Unit 1007H Stage 31 Summary Interval 15050 - 15186 Open Well Pressure 4,126 psi Max Treating Pressure 9,247 psi Max Slurry Rate 59.6 bpm Average Treating Pressure 8,357 psi Average Slurry Rate 48.6 bpm Breakdown Pressure 7,921 psi Breakdown Rate 7 bpm Breakdown Volume 7 gal Avg HHP 9,955 hp Final ISIP 5,916 psi Frac Gradient 0.925 psi/ft Pad Volume 882 gal Main Body Volume 165,900 gal Flush Volume 26,586 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 103,460 lbs 100 M White Sand Pumped 316,350 lbs Proppant in Formation 419,810 lbs Avg Proppant Concentration 3.08 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,027 bbls Load to Recover w/o Acid 4,027 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,950 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 77 bbls Pump down rate 10.0 bpm Max pump down pressure 6,800 psi Fluid Temp 72.0 ?F Total Pump Time 1:32 hr:min Pumps Lost During Job 0 Treatment Start Time 5:40 0:00 0:00 Treatment End Time 7:12 0:00 0:00 - Ball in place plug was utilized.

EP WELLS DAILY OPERATIONS REPORT

Report 38

06/09/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as a hold of 3.50 PPA
								Time for Prop on Perfs 20.0 minutes Time between Stages (TBF) 0:19 hrs/min
7:15	4.53	FRAC	FWL			0		Other pad ops.
11:47	2.88	FRAC	FWL			0		Re-head. LD lub. Change crane wind meter. Grease zipper. Frac maintenance. PU lub.
14:40	0.32	FRAC	FWL			0		14:40 Handover well to wireline. 14:54 Pressure test lubricator to 7000 psi. 14:59 Open well with 4200 psi.
14:59	1.68	FRAC	WLT			0		15:53 "Stage #32 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 15030' Perforate as follows: 15005' - 15006' 14957' - 14958' 14915' - 14916' 14870' - 14871' Stabilized pressure after perf.: 5300 psi Maximum pump down rate: 9 bpm Pump down volume: 75 bbl" 15:57 POOH
16:40	0.10	FRAC	WLT			0		16:40 Shut in well with 4500 psi. 16:46 Handover well to frac.
16:46	0.23	FRAC	FRP			0		Frac prep.
17:00	1.85	FRAC	FRT			0		University 20 PW Unit 1007H Stage 32 Summary Interval 14870 - 15006 Open Well Pressure 4,415 psi Max Treating Pressure 9,389 psi Max Slurry Rate 60.9 bpm Average Treating Pressure 8,652 psi Average Slurry Rate 43.5 bpm Breakdown Pressure 8,150 psi Breakdown Rate 8 bpm Breakdown Volume 12 gal Avg HHP 9,225 hp Final ISIP 5,341 psi Frac Gradient 0.877 psi/ft Pad Volume 2,688 gal Main Body Volume 161,154 gal Flush Volume 30,618 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 401,280 lbs 100 M White Sand Pumped 20,000 lbs Proppant in Formation 421,280 lbs Avg Proppant Concentration 3.35 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 3,912 bbls Load to Recover w/o Acid 3,912 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,837 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 75 bbls Pump down rate 9.0 bpm Max pump down pressure 6,760 psi Fluid Temp 72.0 ?F

EP WELLS DAILY OPERATIONS REPORT

Report 38

06/09/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Total Pump Time 1:49 hr:min Pumps Lost During Job 0 Treatment Start Time 17:02 0:00 0:00 Treatment End Time 18:51 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 4.00 PPA and then as a hold of 4.00 PPA. & step down to 3.5 PPA - pumped additional 100 Blbls during flush due to low rate. Time for Prop on Perfs 24.5 minutes Time between Stages (TBF) 1:43 hrs/min
18:51	3.48	FRAC	FWL			0		Other pad operations.
22:20	0.42	FRAC	FWL			0		22:20 Handover well to wireline. 22:38 Pressure test lubricator to 7000 psi. 22:45 Open well with 4500 psi.
22:45	1.25	FRAC	WLT			0		23:24 "Stage #33 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 14850' Perforate as follows: 14825' - 14826' 14780' - 14781' 14735' - 14736' 14690' - 14691' Stabilized pressure after perf.: 5080 psi Maximum pump down rate: 10 bpm Pump down volume: 64 bbl" 23:27 POOH
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.25	FRAC	WLF			0	0:05 Shut in well with 4500 psi. 0:15 Handover well to frac.
0:15	0.37	FRAC	WLF			0	Other pad operations.
0:37	1.38	FRAC	FRT			0	University 20 PW Unit 1007H Stage 33 Summary Interval 14690 - 14826 Open Well Pressure 4,324 psi Max Treating Pressure 9,356 psi Max Slurry Rate 60.6 bpm Average Treating Pressure 8,487 psi Average Slurry Rate 55.4 bpm Breakdown Pressure 7,779 psi Breakdown Rate 8 bpm Breakdown Volume 7 gal Avg HHP 11,524 hp Final ISIP 5,730 psi Frac Gradient 0.909 psi/ft Pad Volume 1,386 gal Main Body Volume 162,288 gal Flush Volume 26,334 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 84,320 lbs 100 M White Sand Pumped 339,580 lbs Proppant in Formation 423,900 lbs Avg Proppant Concentration 3.20 lb/gal

EP WELLS DAILY OPERATIONS REPORT

Report 38

06/09/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 3,928 bbls Load to Recover w/o Acid 3,928 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,864 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 64 bbls Pump down rate 10.0 bpm Max pump down pressure 6,700 psi Fluid Temp 72.0 ?F Total Pump Time 1:23 hr:min Pumps Lost During Job 1 Treatment Start Time 0:37 0:00 0:00 Treatment End Time 2:00 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as a hold of 3.50 PPA. - Pump 10064 was taken out during the stage for mechanical issue. Time for Prop on Perfs 16.0 minutes Time between Stages (TBF) 0:18 hrs/min
2:00		FRAC	FWL			0	Other pad operations.

EP WELLS DAILY OPERATIONS REPORT

Report 39

06/10/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	39.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	M. Hank Persaud / Mitchell Collins	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Jeremy Harp / Eric Brunet	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	1.00/4.17	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	2,971,834/4,324,614	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.69	LOT/FIT EMW(ppg)	
Daily Cost	211,481	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	38

Operations Summary

24 Hour Summary
Frac Stages 33-35
Update Since Report Time
24 Hour Forecast
Continue frac operations.

EP WELLS DAILY OPERATIONS REPORT

Report 39

06/10/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary								
Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.25	FRAC	WLF			0		0:05 Shut in well with 4500 psi. 0:15 Handover well to frac.
0:15	0.37	FRAC	WLF			0		Other pad operations.
0:37	1.38	FRAC	FRT			0		<p>University 20 PW Unit 1007H Stage 33 Summary</p> <p>Interval 14690 - 14826</p> <p>Open Well Pressure 4,324 psi</p> <p>Max Treating Pressure 9,356 psi</p> <p>Max Slurry Rate 60.6 bpm</p> <p>Average Treating Pressure 8,487 psi</p> <p>Average Slurry Rate 55.4 bpm</p> <p>Breakdown Pressure 7,779 psi</p> <p>Breakdown Rate 8 bpm</p> <p>Breakdown Volume 7 gal</p> <p>Avg HHP 11,524 hp</p> <p>Final ISIP 5,730 psi</p> <p>Frac Gradient 0.909 psi/ft</p> <p>Pad Volume 1,386 gal</p> <p>Main Body Volume 162,288 gal</p> <p>Flush Volume 26,334 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 84,320 lbs</p> <p>100 M White Sand Pumped 339,580 lbs</p> <p>Proppant in Formation 423,900 lbs</p> <p>Avg Proppant Concentration 3.20 lb/gal</p> <p>Max Proppant Concentration 3.50 lb/gal</p> <p>Load to Recover (incl. pumpdown) 3,928 bbls</p> <p>Load to Recover w/o Acid 3,928 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 3,864 bbls</p> <p>20# Linear Fluid Pumped 0 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 64 bbls</p> <p>Pump down rate 10.0 bpm</p> <p>Max pump down pressure 6,700 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 1:23 hr:min</p> <p>Pumps Lost During Job 1</p> <p>Treatment Start Time 0:37 0:00 0:00</p> <p>Treatment End Time 2:00 0:00 0:00</p> <p>- Ball in place plug was utilized.</p> <p>- Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as a hold of 3.50 PPA.</p> <p>- Pump 10064 was taken out during the stage for mechanical issue.</p> <p>Time for Prop on Perfs 16.0 minutes</p> <p>Time between Stages (TBF) 0:18 hrs/min</p>
2:00	5.60	FRAC	FWL			0		Other pad operations.
7:36	1.00	FRAC	FWL			1		<p>*** Start NPT (PERF) @ 07:36 ***</p> <p>POOH on 1007H to add component to tool string.</p> <p>*** End NPT @ 08:36 ***</p>
8:36	0.33	FRAC	FWL			0		<p>8:36 Handover well to wireline.</p> <p>8:45 Pressure test lubricator to 7000 psi.</p> <p>8:50 Open well with 4200 psi.</p>
8:56	1.77	FRAC	WLT			0		<p>9:43 "Stage #34 Plug and Perf.</p> <p>RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.</p> <p>Set plug @ 14670'</p>

EP WELLS DAILY OPERATIONS REPORT

Report 39

06/10/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Perforate as follows: 14645' - 14646' 14600' - 14601' 14555' - 14556' 14510' - 14511' Stabilized pressure after perf.: 5120 psi Maximum pump down rate: 9 bpm Pump down volume: 60 bbl" 9:46 POOH
10:42	0.12	FRAC	WLF			0		10:42 Shut in well with 4150 psi. 10:49 Handover well to frac.
10:49	0.25	FRAC	FRP			0		Frac prep.
11:04	1.53	FRAC	FRT			0		University 20 PW Unit 1007H Stage 34 Summary Interval 14510 - 14646 Open Well Pressure 4,082 psi Max Treating Pressure 9,276 psi Max Slurry Rate 60.7 bpm Average Treating Pressure 8,429 psi Average Slurry Rate 49.4 bpm Breakdown Pressure 7,033 psi Breakdown Rate 8 bpm Breakdown Volume 9 gal Avg HHP 10,206 hp Final ISIP 5,722 psi Frac Gradient 0.909 psi/ft Pad Volume 1,176 gal Main Body Volume 164,640 gal Flush Volume 26,250 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 218,840 lbs 100 M White Sand Pumped 210,080 lbs Proppant in Formation 428,920 lbs Avg Proppant Concentration 3.18 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 3,980 bbls Load to Recover w/o Acid 3,980 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,920 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 60 bbls Pump down rate 9.0 bpm Max pump down pressure 6,588 psi Fluid Temp 72.0 ?F Total Pump Time 1:32 hr:min Pumps Lost During Job 0 Treatment Start Time 11:04 0:00 0:00 Treatment End Time 12:36 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as a hold of 3.50 PPA. Time for Prop on Perfs 20.0 minutes Time between Stages (TBF) 1:32 hrs/min
12:36	4.48	FRAC	FWL			0		Other pad operations.
17:05	1.42	FRAC	FWL			0		17:05 Handover well to wireline Rehead, make up tools & pick up into lub, stab lub and latch up rig lock
18:30	0.12	FRAC	WLT			0		18:30 Pressure test lubricator to 7000 psi. 18:37 Open well with 4200 psi.

EP WELLS DAILY OPERATIONS REPORT

Report 39

06/10/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
18:37	1.38	FRAC	WLT			0		<p>19:21 "Stage #35 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.</p> <p>Set plug @ 14490' Perforate as follows: 14465' - 14466' 14420' - 14421' 14375' - 14376' 14330' - 14331' Stabilized pressure after perf.: 4780 psi Maximum pump down rate: 10 bpm Pump down volume: 60 bbl" 19:26 POOH</p>
20:00	0.12	FRAC	WLF			0		<p>20:00 Shut in well with 4200 psi. 20:07 Handover well to frac.</p>
20:07	1.80	FRAC	WLF			0		Other pad ops
21:55	1.37	FRAC	FRT			0		<p>University 20 PW Unit 1007H Stage 35 Summary</p> <p>Interval 14330 - 14466</p> <p>Open Well Pressure 4,034 psi Max Treating Pressure 9,087 psi Max Slurry Rate 60.6 bpm Average Treating Pressure 8,243 psi Average Slurry Rate 54.3 bpm Breakdown Pressure 7,984 psi Breakdown Rate 8 bpm Breakdown Volume 9 gal Avg HHP 10,970 hp Final ISIP 5,832 psi Frac Gradient 0.918 psi/ft Pad Volume 924 gal Main Body Volume 160,188 gal Flush Volume 26,082 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 424,540 lbs Proppant in Formation 424,540 lbs Avg Proppant Concentration 3.22 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 3,842 bbls Load to Recover w/o Acid 3,842 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,814 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 28 bbls Pump down rate 10.0 bpm Max pump down pressure 5,700 psi Fluid Temp 72.0 ?F Total Pump Time 1:22 hr:min Pumps Lost During Job 0 Treatment Start Time 21:55 0:00 0:00 Treatment End Time 23:17 0:00 0:00</p> <p>- Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as a hold of 3.50 PPA.</p> <p>Time for Prop on Perfs 16.0 minutes Time between Stages (TBF) 0:06 hrs/min</p>

EP WELLS DAILY OPERATIONS REPORT

Report 39

06/10/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
23:17	0.72	FRAC	FWL			0		Other pad operations.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.13	FRAC	FWL			0	Other pad operations.
1:08	0.30	FRAC	FWL			0	1:08 Handover well to wireline. 1:21 Pressure test lubricator to 7000 psi. 1:26 Open well with 4700 psi.
1:26	1.32	FRAC	WLT			0	2:03 "Stage #36 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 14310' Perforate as follows: 14285' - 14286' 14240' - 14241' 14195' - 14196' 14149' - 14150' Stabilized pressure after perf.: 5100 psi Maximum pump down rate: 10 bpm Pump down volume: 54 bbl" 2:06 POOH
2:45	0.08	FRAC	WLF			0	2:45 Shut in well with 4600 psi. 2:50 Handover well to frac.
2:50		FRAC	WLF			0	Other pad ops

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
06/10/2018 07:36	KEANE FRAC LP	Perforation		FWL	EN	Elect Wireline Cable	0.00	1.00	1	OPEN
Description: POOH to add component to tool string						Title: Wireline				
Total							0.00	1.00		

EP WELLS DAILY OPERATIONS REPORT

Report 40

06/11/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	40.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	M. Hank Persaud / Mitchell Collins	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Jeremy Harp / Eric Brunet	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	3,127,437/4,584,091.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.68	LOT/FIT EMW(ppg)	
Daily Cost	155,586	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	39

Operations Summary

24 Hour Summary
Frac Stages 36-37
Update Since Report Time
24 Hour Forecast
Continue frac operations.

EP WELLS DAILY OPERATIONS REPORT

Report 40

06/11/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.13	FRAC	FWL			0		Other pad operations.
1:08	0.30	FRAC	FWL			0		1:08 Handover well to wireline. 1:21 Pressure test lubricator to 7000 psi. 1:26 Open well with 4700 psi.
1:26	1.32	FRAC	WLT			0		2:03 "Stage #36 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 14310' Perforate as follows: 14285' - 14286' 14240' - 14241' 14195' - 14196' 14149' - 14150' Stabilized pressure after perf.: 5100 psi Maximum pump down rate: 10 bpm Pump down volume: 54 bbl" 2:06 POOH
2:45	0.08	FRAC	WLF			0		2:45 Shut in well with 4600 psi. 2:50 Handover well to frac.
2:50	1.45	FRAC	WLF			0		Other pad ops
4:17	0.55	FRAC	FRP			0		Frac prep.
4:50	1.50	FRAC	FRT			0		University 20 PW Unit 1007H Stage 36 Summary Interval 14150 - 14286 Open Well Pressure 4,282 psi Max Treating Pressure 9,280 psi Max Slurry Rate 60.7 bpm Average Treating Pressure 8,321 psi Average Slurry Rate 47.5 bpm Breakdown Pressure 8,741 psi Breakdown Rate 10 bpm Breakdown Volume 21 gal Avg HHP 9,687 hp Final ISIP 5,666 psi Frac Gradient 0.904 psi/ft Pad Volume 2,100 gal Main Body Volume 151,662 gal Flush Volume 25,998 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 365,550 lbs 100 M White Sand Pumped 62,780 lbs Proppant in Formation 428,330 lbs Avg Proppant Concentration 3.57 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 3,665 bbls Load to Recover w/o Acid 3,665 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,611 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 54 bbls Pump down rate 10.0 bpm Max pump down pressure 6,600 psi Fluid Temp 72.0 °F Total Pump Time 1:29 hr:min Pumps Lost During Job 0 Treatment Start Time 4:50 0:00 0:00 Treatment End Time 6:19 0:00 0:00 - Ball in place plug was utilized.

EP WELLS DAILY OPERATIONS REPORT

Report 40

06/11/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- Proppant was pumped as a ramp of 0.50 PPA to 4.00 PPA and then as a hold of 4.00 PPA. - Raised the FR concentration to a 0.70 gpt for 2 boxes during 4.00 PPA. Time for Prop on Perfs 26.0 minutes Time between Stages (TBF) 0:33 hrs/min
6:20	5.42	FRAC	FRT			0		Other pad operations.
11:45	0.25	FRAC	FWL			0		11:45 Handover well to wireline. 11:55 Pressure test lubricator to 7000 psi. 12:00 Open well with 4500 psi.
12:00	1.60	FRAC	WLT			0		12:53 "Stage #37 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 14130' Perforate as follows: 14108' - 14109' 14061' - 14062' 14016' - 14017' 13970' - 13971' Stabilized pressure after perf.: 4900 psi Maximum pump down rate: 9 bpm Pump down volume: 55 bbl" 12:57 POOH
13:36	0.10	FRAC	WLF			0		13:36 Shut in well with 4250 psi. 13:42 Handover well to frac.
13:42	0.30	FRAC	FRP			0		Frac prep.
14:00	1.72	FRAC	FRT			0		University 20 PW Unit 1007H Stage 37 Summary Interval 13970 - 14106 Open Well Pressure 4,224 psi Max Treating Pressure 9,258 psi Max Slurry Rate 60.7 bpm Average Treating Pressure 8,287 psi Average Slurry Rate 44.7 bpm Breakdown Pressure 8,866 psi Breakdown Rate 6 bpm Breakdown Volume 10 gal Avg HHP 9,079 hp Final ISIP 5,665 psi Frac Gradient 0.904 psi/ft Pad Volume 3,192 gal Main Body Volume 161,364 gal Flush Volume 25,998 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 426,160 lbs Proppant in Formation 426,160 lbs Avg Proppant Concentration 3.29 lb/gal Max Proppant Concentration 3.75 lb/gal Load to Recover (incl. pumpdown) 3,897 bbls Load to Recover w/o Acid 3,897 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,842 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 55 bbls Pump down rate 9.0 bpm Max pump down pressure 6,320 psi Fluid Temp 72.0 °F

EP WELLS DAILY OPERATIONS REPORT

Report 40

06/11/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Total Pump Time 1:43 hr:min Pumps Lost During Job 2 Treatment Start Time 14:00 0:00 0:00 Treatment End Time 15:43 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as holds of 3.50 PPA & 3.75 PPA. Time for Prop on Perfs 33.0 minutes Time between Stages (TBF) 1:07 hrs/min
15:43	4.62	FRAC	FWL			0		Other pad ops. Rehead WL
20:20	0.42	FRAC	FWL			0		Greasing off-schedule. LMVs on Zipper Manifold
20:45	0.17	FRAC	FWL			0		20:45 Handover well to wireline. 20:50 Pressure test lubricator to 7000 psi. 20:55 Open well with 4500 psi.
20:55	0.78	FRAC	WLT			0		21:40 "Stage #38 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 13950' Perforate as follows: 13925' - 13926' 13880' - 13881' 13835' - 13836' 13790' - 13791' Stabilized pressure after perf.: 4710 psi Maximum pump down rate: 10 bpm Pump down volume: 49 bbl" 21:42 POOH
21:42	0.58	FRAC	WLF			0		22:15 Shut in well with 4500 psi. 22:17 Handover well to frac.
22:17	1.28	FRAC	WLF			0		Other pad operations.
23:34	0.43	FRAC	FRT			0		Begin frac stage 28
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.02	FRAC	FRT			0	University 20 PW Unit 1007H Stage 38 Summary Interval 13790 - 13926 Open Well Pressure 4,290 psi Max Treating Pressure 9,156 psi Max Slurry Rate 60.8 bpm Average Treating Pressure 8,323 psi Average Slurry Rate 53.2 bpm Breakdown Pressure 8,265 psi Breakdown Rate 10 bpm Breakdown Volume 6 gal Avg HHP 10,853 hp Final ISIP 5,508 psi Frac Gradient 0.891 psi/ft Pad Volume 1,344 gal Main Body Volume 166,404 gal Flush Volume 25,746 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 319,140 lbs

EP WELLS DAILY OPERATIONS REPORT

Report 40

06/11/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							100 M White Sand Pumped 105,890 lbs Proppant in Formation 425,030 lbs Avg Proppant Concentration 3.11 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,011 bbls Load to Recover w/o Acid 4,011 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,962 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 49 bbls Pump down rate 10.0 bpm Max pump down pressure 6,600 psi Fluid Temp 72.0 ?F Total Pump Time 1:27 hr:min Pumps Lost During Job 0 Treatment Start Time 23:34 0:00 0:00 Treatment End Time 1:01 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and then as holds of 3.50 PPA . Time for Prop on Perfs 19.0 minutes Time between Stages (TBF) 0:15 hrs/min
1:01		FRAC	FWL			0	Other pad ops.

EP WELLS DAILY OPERATIONS REPORT

Report 42

06/13/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	42.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	M. Hank Persaud / Mitchell Collins	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Jeremy Harp	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	3.00/16.68	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	3,666,692/4,584,091.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.80	LOT/FIT EMW(ppg)	
Daily Cost	265,224	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	41

Operations Summary

24 Hour Summary
Frac Stages 42-45 (Well Complete)
Update Since Report Time
24 Hour Forecast
RDMO Frac

EP WELLS DAILY OPERATIONS REPORT

Report 42

06/13/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	FRAC	FRT			0		<p>University 20 PW Unit 1007H Stage 42 Summary</p> <p>Interval 13070 - 13206</p> <p>Open Well Pressure 4,798 psi</p> <p>Max Treating Pressure 9,091 psi</p> <p>Max Slurry Rate 62.2 bpm</p> <p>Average Treating Pressure 8,097 psi</p> <p>Average Slurry Rate 51.4 bpm</p> <p>Breakdown Pressure 9,021 psi</p> <p>Breakdown Rate 14 bpm</p> <p>Breakdown Volume 20 gal</p> <p>Avg HHP 10,201 hp</p> <p>Final ISIP 6,379 psi</p> <p>Frac Gradient 0.963 psi/ft</p> <p>Pad Volume 3,360 gal</p> <p>Main Body Volume 150,780 gal</p> <p>Flush Volume 25,284 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 81,800 lbs</p> <p>100 M White Sand Pumped 341,650 lbs</p> <p>Proppant in Formation 423,450 lbs</p> <p>Avg Proppant Concentration 3.55 lb/gal</p> <p>Max Proppant Concentration 4.00 lb/gal</p> <p>Load to Recover (incl. pumpdown) 3,618 bbls</p> <p>Load to Recover w/o Acid 3,618 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 3,590 bbls</p> <p>20# Linear Fluid Pumped 0 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 28 bbls</p> <p>Pump down rate 9.0 bpm</p> <p>Max pump down pressure 5,650 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 1:23 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 23:37 0:00 0:00</p> <p>Treatment End Time 1:00 0:00 0:00</p> <p>- Ball in place plug was utilized.</p> <p>- Proppant was pumped as a ramp of 0.50 PPA to 4.0 PPA and then as a hold of 4.0 PPA .</p> <p>Time for Prop on Perfs 23.0 minutes</p> <p>Time between Stages (TBF) 1:30 hrs/min</p>
1:00	0.15	FRAC	FWL			0		Other pad ops.
1:09	0.05	FRAC	FWL			0		<p>1:00 Handover well to wireline.</p> <p>1:09 Pressure test lubricator to 7000 psi.</p> <p>1:12 Open well with 5400 psi.</p>
1:12	1.22	FRAC	WLT			0		<p>1:50 "Stage #43 Plug and Perf.</p> <p>RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.</p> <p>Set plug @ 13050'</p> <p>Perforate as follows:</p> <p>13025' - 13026'</p> <p>12980' - 12981'</p> <p>12935' - 12936'</p> <p>12890' - 12891'</p> <p>Stabilized pressure after perf.: 5370 psi</p> <p>Maximum pump down rate: 8 bpm</p> <p>Pump down volume: 31 bbl"</p>

EP WELLS DAILY OPERATIONS REPORT

Report 42

06/13/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								1:53 POOH
2:25	0.08	FRAC	WLF			0		2:25 Shut in well with 5200 psi. 2:30 Handover well to frac.
2:30	1.22	FRAC	WLF			0		Other pad ops.
3:43	0.20	FRAC	FRP			0		Frac prep.
3:55	1.43	FRAC	FRT			0		<p>University 20 PW Unit 1007H Stage 43 Summary</p> <p>Interval 12890 - 13026</p> <p>Open Well Pressure 4,954 psi</p> <p>Max Treating Pressure 9,200 psi</p> <p>Max Slurry Rate 61.1 bpm</p> <p>Average Treating Pressure 8,212 psi</p> <p>Average Slurry Rate 50.7 bpm</p> <p>Breakdown Pressure 8,971 psi</p> <p>Breakdown Rate 10 bpm</p> <p>Breakdown Volume 10 gal</p> <p>Avg HHP 10,205 hp</p> <p>Final ISIP 5,474 psi</p> <p>Frac Gradient 0.888 psi/ft</p> <p>Pad Volume 2,142 gal</p> <p>Main Body Volume 148,806 gal</p> <p>Flush Volume 25,158 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 270,120 lbs</p> <p>100 M White Sand Pumped 148,880 lbs</p> <p>Proppant in Formation 419,000 lbs</p> <p>Avg Proppant Concentration 3.51 lb/gal</p> <p>Max Proppant Concentration 4.00 lb/gal</p> <p>Load to Recover (incl. pumpdown) 3,574 bbls</p> <p>Load to Recover w/o Acid 3,574 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 3,543 bbls</p> <p>20# Linear Fluid Pumped 0 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 31 bbls</p> <p>Pump down rate 8.0 bpm</p> <p>Max pump down pressure 5,676 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 1:26 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 3:55 0:00 0:00</p> <p>Treatment End Time 5:21 0:00 0:00</p> <p>- Ball in place plug was utilized.</p> <p>- Proppant was pumped as a ramp of 0.50 PPA to 4.0 PPA and then as a hold of 4.0 PPA .</p> <p>Time for Prop on Perfs 25.0 minutes</p> <p>Time between Stages (TBF) 0:10 hrs/min</p>
5:22	0.13	FRAC	FWL			0		Other pad ops.
5:30	0.08	FRAC	FWL			0		5:20 Handover well to wireline. 5:30 Pressure test lubricator to 7000 psi. 5:35 Open well with 5250 psi.
5:35	0.42	FRAC	WLT			0		W/L trip in hole for stage 44
6:00	0.33	FRAC	WLT			1		Depth of 2000' W/L noticed loss of communication with CCL, trouble shoot to depth of 4000' decision made to POOH
6:20	2.17	FRAC	WLT			1		W/L at surface, Diagnose issue with CCL, Re-Head completed
8:30	0.50	FRAC	WLT			1		Awaiting arrival of DownHole Boss Hog 3.65" OD CFP

EP WELLS DAILY OPERATIONS REPORT

Report 42

06/13/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
9:00	1.33	FRAC	WLT			0		DownHole Boss Hog 3.65" OD CFP on location 9:00 Handover well to wireline. 9:25 Pressure test lubricator to 7500 psi. 9:33 Open well with 4400 psi.
10:20	0.67	FRAC	WLT			0		10:20 "Stage #44 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 12870' Perforate as follows: 12845' - 12846' 12800' - 12801' 12755' - 12756' 12710' - 12711' Stabilized pressure after perf.: 4850 psi Maximum pump down rate: 9 bpm Pump down volume: 23 bbl" 10:23 POOH
11:00	0.32	FRAC	WLF			0		11:00 Shut in well with 4250 psi. 11:15 Handover well to frac.
11:19	1.63	FRAC	FRT			0		University 20 PW Unit 1007H Stage 44 Summary Interval 12710 - 12846 Open Well Pressure 4,288 psi Max Treating Pressure 9,305 psi Max Slurry Rate 60.6 bpm Average Treating Pressure 8,488 psi Average Slurry Rate 48.2 bpm Breakdown Pressure 7,516 psi Breakdown Rate 5 bpm Breakdown Volume 6 gal Avg HHP 10,027 hp Final ISIP 5,754 psi Frac Gradient 0.911 psi/ft Pad Volume 11,046 gal Main Body Volume 157,962 gal Flush Volume 25,116 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 290,780 lbs 100 M White Sand Pumped 124,310 lbs Proppant in Formation 415,090 lbs Avg Proppant Concentration 3.49 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 3,784 bbls Load to Recover w/o Acid 3,784 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,761 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 23 bbls Pump down rate 9.0 bpm Max pump down pressure 6,272 psi Fluid Temp 72.0 ?F Total Pump Time 1:38 hr:min Pumps Lost During Job 0 Treatment Start Time 11:19 0:00 0:00 Treatment End Time 12:57 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 4.0 PPA and then as a hold of 4.0 PPA . Time for Prop on Perfs 27.0 minutes

EP WELLS DAILY OPERATIONS REPORT

Report 42

06/13/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Time between Stages (TBF) 4:18 hrs/min
12:57	0.47	FRAC	FWL			0		Other Pad Ops
13:25	0.18	FRAC	FWL			0		13:25 Handover well to wireline. 13:30 Pressure test lubricator to 7500 psi. 13:36 Open well with 5200 psi.
13:36	1.48	FRAC	WLT			0		14:16 "Stage #45 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 12688' Perforate as follows: 12665' - 12666' 12620' - 12621' 12575' - 12576' 12530' - 12531' 12485' - 12486' Stabilized pressure after perf.: 5170 psi Maximum pump down rate: 9 bpm Pump down volume: 20 bbl" 14:20 POOH
15:05	0.33	FRAC	WLF			0		15:05 Shut in well with 4800 psi. 15:10 FMC Scheduled Grease Crown 15:20 Handover well to frac.
15:25	1.72	FRAC	FRT			0		University 20 PW Unit 1007H Stage 45 Summary Interval 12530 - 12666 Open Well Pressure 4,606 psi Max Treating Pressure 9,205 psi Max Slurry Rate 60.1 bpm Average Treating Pressure 8,423 psi Average Slurry Rate 52.4 bpm Breakdown Pressure 8,185 psi Breakdown Rate 12 bpm Breakdown Volume 17 gal Avg HHP 10,818 hp Final ISIP 5,658 psi Frac Gradient 0.903 psi/ft Pad Volume 966 gal Main Body Volume 191,646 gal Flush Volume 24,822 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 128,840 lbs 100 M White Sand Pumped 403,280 lbs Proppant in Formation 532,120 lbs Avg Proppant Concentration 3.25 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,583 bbls Load to Recover w/o Acid 4,583 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,563 bbls 20# Linear Fluid Pumped 0 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 20 bbls Pump down rate 9.0 bpm Max pump down pressure 5,907 psi Fluid Temp 72.0 °F Total Pump Time 1:43 hr:min Pumps Lost During Job 0 Treatment Start Time 15:25 0:00 0:00 Treatment End Time 17:08 0:00 0:00 - Ball in place plug was utilized. - Proppant was pumped as a ramp of 0.50 PPA to 3.50 PPA and

EP WELLS DAILY OPERATIONS REPORT

Report 42

06/13/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								then as a hold of 3.50 PPA .
								Time for Prop on Perfs 21.0 minutes Time between Stages (TBF) 0:31 hrs/min
17:08	0.87	FRAC	FRT			0		Well Complete
Total	17.98							

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
06/13/2018 06:00	KEANE FRAC LP	Perforation		WLT	EN	Elect W/line Perforating Equip	2.50	2.50		OPEN
Description: W/L Loss on Communcation with CCL						Title: Loss on Communcation with CCL				
06/13/2018 08:30	DOWNHOLE TECHNOLOGY LLC	Wait On Equipment/ Materials		WLT	N		0.50	0.50		OPEN
Description: Lack of inventory 3.65" OD CFP Awaiting arrival of DownHole Boss Hog 3.65" OD CFP						Title: WOE				
Total							3.00	3.00		

EP WELLS DAILY OPERATIONS REPORT

Report 43

06/14/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	43.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	M Reber	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	tony Steele	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	3,781,330/4,584,091.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.82	LOT/FIT EMW(ppg)	
Daily Cost	66,219	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	42

Operations Summary

24 Hour Summary
Continue RD move out frac, MIRU CT package, crane, chemicals
Update Since Report Time
Move in rig up Coil tubing, pressure test and function test tools and PCE
24 Hour Forecast
RIH mill plugs

EP WELLS DAILY OPERATIONS REPORT

Report 43

06/14/2018

Well
WellboreUNIVERSITY 20 PW UNIT 1007H
UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	14.00	COIL	RGU			0		RDMO Frac
14:10	0.33	COIL	SAF			0		PJSM, lead off with UnCAAP, discuss truck traffic on location, walk the lines, staying hydrated, buddy system, lifting suspended loads, 12 LSR's, hand awareness, line of fire, review JSA's and open permits
14:30	1.00	COIL	RGU			0		MI and prep to spot CTP pump, reel trailer, and gen-set, walk lines and check valve orientation, MI and spot emerald surf spot in boosters NOTE: Frac continue to move 3" temp pipe out of way so reel trailer can spot NOTE: Frac continue to move out containment so 350T crane can spot
15:30	2.50	COIL	RGU			0		MI crane, measure out spacing and create critical lift plan, back in crane weights and transfer to crane 17:00 Start lay temp pipe, 1502 agreement, no-go iron, 17:30 PJSM nights, walk the lines, staying hydrated, buddy system, 12 LSR's, hand awareness, line of fire, review JSA's and open permits
18:00	2.00	COIL	RGU			0		Add hose extensions to coil package, walk all surface ines, verify valve alignment, inspect sand-x operation. Function test Bop's and stab onto well. pick up injector headand make up Lubricator. Dual circ sub 2.88 OD 0.56" ID XRV extended reach tool 2.88 OD 0.56" ID MOTOR 2.88" OD Rotary sub 3.13" OD 1.0" ID roller cone bit 3.75" OD
20:00	4.00	COIL	RGU			0		Make up Dimple connector and pull test to 40K Make up BHA as folows Dual back pressure valve 2.88 OD 1.00" ID Hydraulic disconnect 2.88 OD 0.69" ID Dual circ sub 2.88OD 0.56" ID XRV sub 2.88 OD Titan motor 2.88 OD rotary sub 3.13 OD varel roller cone bit 3.75" AOL= 23.05'
Total	23.83							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.60	COIL	CHB			0	Function test motor @ 3.5 BPM with 3550 PSI at surface.
0:36	0.40	COIL	BOP			0	Pressure test on well 500 low and 8500 High, bleed off to 4100 PSI
1:00	2.00	COIL	CTR			0	open well and RIH to liner top @11,486
3:00	0.75	COIL	CTR			0	conduct weight check at liner top POOH =50K hanging is 22K 6500 circ pressure 4000 PSI wellhead
3:45	0.33	COIL	MIL			0	Tag plug 1 @ 12,680 whp=3800 circ =6500 FR=.25 POP-.10 mill time =2 mins
4:05	0.23	COIL	MIL			0	Tag plug 2 @ 12,857 whp=3800 circ =6500 thru= 4 mins stalls=0 FR=.25 POP-.10
4:19	0.30	COIL	MIL			0	Tag plug 3 @ 13,038 whp=3800 circ =6400 thru= 4 mins stalls=0 FR=.25 POP-.10

EP WELLS DAILY OPERATIONS REPORT

Report 43

06/14/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
4:37	0.32	COIL	MIL			0	Tag plug 4 @ 13,218 whp=3800 circ =6500 thru= 6 mins stalls=0 FR=.25 POP-.10 mill time =2 mins 3 bbl /min rate both pump and returns
4:56		COIL	MIL			0	Tag plug 5 @ 13,398 whp=3800 circ =6500 thru= 5 mins stalls=0 FR=.25 POP-.10 mill time =2 mins 3 bbl /min rate both pump and returns

EP WELLS DAILY OPERATIONS REPORT

Report 44

06/15/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	44.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	M Reber / D Cohen	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Tony Steele	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	3,846,831/4,584,091.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.84	LOT/FIT EMW(ppg)	
Daily Cost	97,807	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
man hours= 504							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	43

Operations Summary

24 Hour Summary
Mill plugs #1-
Update Since Report Time
RIH t mill plugs
24 Hour Forecast
mill plugs

EP WELLS DAILY OPERATIONS REPORT

Report 44

06/15/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.60	COIL	CHB			0		Function test motor @ 3.5 BPM with 3550 PSI at surface.
0:36	0.40	COIL	BOP			0		Pressure test on well 500 low and 8500 High, bleed off to 4100 PSI
1:00	2.00	COIL	CTR			0		open well and RIH to liner top @11,486
3:00	0.75	COIL	CTR			0		conduct weight check at liner top POOH =50K hanging is 22K 6500 circ pressure 4000 PSI wellhead
3:45	0.33	COIL	MIL			0		Tag plug 1 @ 12,680 whp=3800 circ =6500 FR=.25 POP-.10 mill time =2 mins
4:05	0.23	COIL	MIL			0		Tag plug 2 @ 12,857 whp=3800 circ =6500 thru= 4 mins stalls=0 FR=.25 POP-.10
4:19	0.30	COIL	MIL			0		Tag plug 3 @ 13,038 whp=3800 circ =6400 thru= 4 mins stalls=0 FR=.25 POP-.10
4:37	0.32	COIL	MIL			0		Tag plug 4 @ 13,218 whp=3800 circ =6500 thru= 6 mins stalls=0 FR=.25 POP-.10 3 bbl /min rate both pump and returns
4:56	0.32	COIL	MIL			0		Tag plug 5 @ 13,398 whp=3800 circ =6500 thru= 5 mins stalls=0 FR=.25 POP-.10 3 bbl /min rate both pump and returns
5:15	0.35	COIL	MIL			0		Tag plug 6 @ 13,582 whp=3800 circ =6500 thru= 6 mins stalls=0 FR=.25 POP-.10 3 bbl /min rate both pump and returns
5:36	0.20	COIL	MIL			0		Tag plug 6 @ 13,761 whp=3800 circ =6500 thru= 4 mins stalls=0 FR=.15 POP-.10 3 bbl /min rate both pump and returns
5:48	0.48	COIL	MIL			0		Tag plug 8 @ 13,942 whp=3800 circ =6400 thru= 5 mins stalls=0 FR=.15 POP-.10 3 bbl /min rate both pump and returns
6:17	0.70	COIL	MIL			0		Tag Plug 9 @ 14120' WELLHEAD= 3800 CIRC PRES=6200 PUMP RATE= 3.0 bpm RETURN RATE= 3.0 bpm MILL TIME = 6 MIN RETURN DESCRIPTION= NOTE; Start making medium sand at 06:30 / no gas STALLS= 1 / PU for 200' wiper trip DUMP PLUG CATCHER= RIH SPEED= 6.1 TRIP TIME BETWEEN PLUGS= 29 min FR= .15 gal per 10 bbls. POP= .1 gal /10 bbls, start pump 5 bbl sweep x2 hr, mix at 2 gal/10 Re= 40,000, Vis=27.5 cp, Chlorides 10,000 NOTE: 200' wiper trip from 14,118 to 13,918', PU weight 60K (2,760 psi hyd), RIH at 18K
6:59	0.23	COIL	MIL			0		Tag Plug 10 @ 14301' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm NOTE: Bring rate to 3.25 bpm

EP WELLS DAILY OPERATIONS REPORT

Report 44

06/15/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								RETURN RATE= 3.25 bpm MILL TIME = 6 MIN RETURN DESCRIPTION= medium sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 4.3 FTM TRIP TIME BETWEEN PLUGS= 42 min NOTE Short trip before FR= .20 gal per 10 bbls. POP= .1 gal /10 bbls, start pump 5 bbl sweep x2 hr, mix at 2 gal/10 Re= 40,000, Vis=27.5 cp, Chlorides 10,000
7:13	0.25	COIL	MIL			0		Tag Plug 11 @ 14478' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.2 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 4.3 FTM TRIP TIME BETWEEN PLUGS= 14 min FR= .20 gal per 10 bbls. POP= .1 gal /10 bbls, start pump 5 bbl sweep x2 hr, mix at 2 gal/10 Re= 35,000, Vis=27.8 cp, Chlorides 10,000
7:28	0.45	COIL	MIL			0		Tag Plug 12 @ 14658' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 2 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 15 FTM TRIP TIME BETWEEN PLUGS= 12 min FR= .2 gal per 10 bbls. POP= .1 gal /10 bbls, start pump 5 bbl sweep x2 hr, mix at 2 gal/10 Re= 34K, Vis=27.8 cp, Chlorides 10,000
7:55	0.35	COIL	MIL			0		Tag Plug 13 @ 14840' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 1 MIN RETURN DESCRIPTION= light sand STALLS= 1 DUMP PLUG CATCHER= RIH SPEED= 15 FTM TRIP TIME BETWEEN PLUGS= 16 min FR= .2 gal per 10 bbls. POP= .1 gal /10 bbls, start pump 5 bbl sweep x2 hr, mix at 2 gal/
8:16	0.22	COIL	MIL			0		Tag Plug 14 @ 15018' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.20 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= light sand STALLS= 1 DUMP PLUG CATCHER= RIH SPEED= 13 FTM TRIP TIME BETWEEN PLUGS= 26 min FR= .2 gal per 10 bbls. POP= .1 gal /10 bbls, start pump 5 bbl sweep x2 hr, mix at 2 gal/
8:29	0.32	COIL	MIL			0		Tag Plug 15 @ 15199' WELLHEAD= 3800 CIRC PRES=7000

EP WELLS DAILY OPERATIONS REPORT

Report 44

06/15/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								PUMP RATE= 3.25 bpm RETURN RATE= 3.20 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 11 FTM TRIP TIME BETWEEN PLUGS= 21 min FR= .2 gal per 10 bbls. POP= .1 gal /10 bbls, start pump 5 bbl sweep x2 hr, mix at 2 gal/
8:48	0.28	COIL	MIL			0		Tag Plug 16 @ 15380' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.20 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 11 FTM TRIP TIME BETWEEN PLUGS= 21 min FR= .2 gal per 10 bbls. POP= .1 gal /10 bbls, start pump 5 bbl sweep x2 hr, mix at 2 gal/
9:05	0.40	COIL	MIL			0		Tag Plug 17 @ 15563' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.20 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 11 FTM TRIP TIME BETWEEN PLUGS= 21 min FR= .2 gal per 10 bbls. POP= .1 gal /10 bbls, start pump 5 bbl sweep x2 hr, mix at 2 gal/
9:29	0.30	COIL	MIL			0		Tag Plug 18 @ 15740' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.20 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= med sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 11 FTM TRIP TIME BETWEEN PLUGS= 22 min FR= .20 gal per 10 bbls. POP= .1 gal /10 bbls, start pump 5 bbl sweep x2 hr, mix at 2 gal/
9:47	0.58	COIL	MIL			0		Tag Plug 19 @ 15922' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.30 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 8 FTM TRIP TIME BETWEEN PLUGS= 24 min FR= .20 gal per 10 bbls. POP= .1 gal /10 bbls, start pump 5 bbl sweep x2 hr, mix at 2 gal/
10:22	0.48	COIL	MIL			0		Tag Plug 20 @ 16099' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm

EP WELLS DAILY OPERATIONS REPORT

Report 44

06/15/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								MILL TIME = 4 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 10 FTM TRIP TIME BETWEEN PLUGS= 35 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
10:51	0.37	COIL	MIL			0		Tag Plug 21 @ 16280' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 7 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 12 FTM TRIP TIME BETWEEN PLUGS= 61 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
11:13	0.35	COIL	MIL			0		Tag Plug 22 @ 16457' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 7 FTM TRIP TIME BETWEEN PLUGS= 22 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
11:34	0.22	COIL	MIL			0		Tag Plug 23 @ 16643' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 8 FTM TRIP TIME BETWEEN PLUGS= 20 min NOTE: Bring FR to .25 gal / 10 bbls FR= .25 gal per 10 bbls. POP= .1 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
11:47	0.33	COIL	MIL			0		Tag Plug 24 @ 16827' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.2 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 9 FTM TRIP TIME BETWEEN PLUGS= 19 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
12:07	0.30	COIL	MIL			0		Tag Plug 25 @ 17009' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 3 MIN

EP WELLS DAILY OPERATIONS REPORT

Report 44

06/15/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 11 FTM TRIP TIME BETWEEN PLUGS= 19 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
12:25	0.23	COIL	MIL			0		Tag Plug 26 @ 17189' WELLHEAD= 3800 CIRC PRES=7000 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 3 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 9 FTM TRIP TIME BETWEEN PLUGS= 21 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
12:39	0.40	COIL	MIL			0		Tag Plug 27 @ 17367' WELLHEAD= 3600 CIRC PRES=6900 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= light and STALLS= DUMP PLUG CATCHER= RIH SPEED= 9 FTM TRIP TIME BETWEEN PLUGS= 20 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x2 hr, mix at 5 gal/
13:03	0.52	COIL	MIL			0		Tag Plug 28 @ 17550' WELLHEAD= 3600 CIRC PRES=6900 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 12 FTM TRIP TIME BETWEEN PLUGS= 20 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
13:34	0.28	COIL	MIL			0		Tag Plug 29 @ 17755' WELLHEAD= 3600 CIRC PRES=6900 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 3 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 9 FTM TRIP TIME BETWEEN PLUGS= 20 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
13:51	0.15	COIL	MIL			0		Tag Plug 30 @ 17890' WELLHEAD= 3600 CIRC PRES=6900 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= light sand STALLS=

EP WELLS DAILY OPERATIONS REPORT

Report 44

06/15/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								DUMP PLUG CATCHER= RIH SPEED= 13 FTM TRIP TIME BETWEEN PLUGS= 22 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
14:00	2.50	COIL	MIL			0		PU for wiper trip, POOH at 70K, SD, pipe pulling heavy, CTP policy do not pull 10K over, RIH to neutral weight at 36K 14:15 Pump 10/10/10 and let gel exit nozzle's, last sweep out, wait 5 min, dial in hydraulics at 3250 psi, POOH at 70K, CT dragging heavy, POOH for 1,000' wiper trip 14:23 CT pulls free at 17,738' with usual 60K POOH weight, continue POOH to 16,911', RIH to 17,911' at 35 ftn
16:30	0.78	COIL	MIL			0		Tag Plug 31 @ 18090' WELLHEAD= 3700 CIRC PRES=6900 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 3 MIN RETURN DESCRIPTION= light sand / trace gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 5.7 FTM TRIP TIME BETWEEN PLUGS= 48 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
17:17	0.72	COIL	MIL			0		Tag Plug 32 @ 18301' WELLHEAD= 3700 CIRC PRES=6800 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 3 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 5 FTM TRIP TIME BETWEEN PLUGS= 42 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
18:00	0.88	COIL	MIL			0		Tag Plug 33 @ 18462' WELLHEAD= 3700 CIRC PRES=6700 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 3 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 4 FTM TRIP TIME BETWEEN PLUGS= 30 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
18:53	0.75	COIL	MIL			0		Tag Plug 34 @ 18641' WELLHEAD= 3700 CIRC PRES=6700 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 3 MIN RETURN DESCRIPTION= light sand STALLS= 0 DUMP PLUG CATCHER= 1 RIH SPEED= 46FTM TRIP TIME BETWEEN PLUGS= 45 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/

EP WELLS DAILY OPERATIONS REPORT

Report 44

06/15/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
19:38	0.87	COIL	MIL			0		Tag Plug 35 @ 18814' WELLHEAD= 3750 CIRC PRES=6700 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= light/ medium sand STALLS= 0 DUMP PLUG CATCHER= RIH SPEED= 4 FTM TRIP TIME BETWEEN PLUGS= 45 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
20:30	1.12	COIL	MIL			0		Tag Plug 36 @ 18994' WELLHEAD= 3700 CIRC PRES=6700 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 3 MIN RETURN DESCRIPTION= light sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 4 FTM TRIP TIME BETWEEN PLUGS= 52 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
21:37	0.88	COIL	MIL			0		Tag Plug 37 @ 19,172' WELLHEAD= 3700 CIRC PRES=6700 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 3 MIN RETURN DESCRIPTION= light/ medium sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 2.7 FTM TRIP TIME BETWEEN PLUGS= 30 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
22:30	1.13	COIL	MIL			0		Tag Plug 38 @ 19,344' WELLHEAD= 3700 CIRC PRES=6700 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 6 MIN RETURN DESCRIPTION= light/ medium sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 3.4 FTM TRIP TIME BETWEEN PLUGS= 57 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
23:38	0.37	COIL	MIL			0		Tag Plug 39 @ 19,515' WELLHEAD= 3700 CIRC PRES=6700 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= light/ medium sand STALLS= 0 DUMP PLUG CATCHER= 0 RIH SPEED= 3.4 FTM TRIP TIME BETWEEN PLUGS= 57 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
Total	24.00							

EP WELLS DAILY OPERATIONS REPORT

Report 44 06/15/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00		COIL	MIL			0	rih to pug 40

EP WELLS DAILY OPERATIONS REPORT

Report 45

06/16/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	45.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	M Reber / D Cohen	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Tony Steele	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	7.50/31.25	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	3,950,215/4,584,091.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.86	LOT/FIT EMW(ppg)	
Daily Cost	102,719	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	44

Operations Summary

24 Hour Summary
finish milling plugs, flush liner top, RIG over to next well man hours= 576
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 45

06/16/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.80	COIL	MIL			0		rih to pug 40
0:48	1.33	COIL	MIL			0		Tag Plug 40 @ 19,692' WELLHEAD= 3700 CIRC PRES=6700 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 6 MIN RETURN DESCRIPTION= light/ medium sand STALLS= 0 DUMP PLUG CATCHER= 0 RIH SPEED= 2.5 FTM TRIP TIME BETWEEN PLUGS= 68 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
2:08	1.43	COIL	MIL			0		Tag Plug 41 @ 19,866' WELLHEAD= 3600 CIRC PRES=6600 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 6 MIN RETURN DESCRIPTION= light/ medium sand STALLS= 0 DUMP PLUG CATCHER= 0 RIH SPEED= 1.5 FTM TRIP TIME BETWEEN PLUGS= 57 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
3:34	1.40	COIL	MIL			0		Tag Plug 42 @ 20,054' WELLHEAD= 3650 CIRC PRES=6600 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= light/ medium sand STALLS= 0 DUMP PLUG CATCHER= 0 RIH SPEED= 2.0 FTM TRIP TIME BETWEEN PLUGS= 86 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
4:58	1.43	COIL	MIL			0		Tag Plug 43 @ 20,248' WELLHEAD= 3650 CIRC PRES=6600 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= light/ medium sand STALLS= 0 DUMP PLUG CATCHER= 0 RIH SPEED= 2.0 FTM TRIP TIME BETWEEN PLUGS= 86 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl sweep x3 hr, mix at 5 gal/
6:24	0.27	COIL	MIL			0		Plug 44 @ 20,425' NO SHOW WELLHEAD= 3700 CIRC PRES=6600 PUMP RATE= 3.25 bpm RETURN RATE= 3.25 bpm MILL TIME = N/A RETURN DESCRIPTION= light/ medium sand STALLS= 0 DUMP PLUG CATCHER= 0 RIH SPEED= 2.0 FTM TRIP TIME BETWEEN PLUGS= 86 min FR= .25 gal per 10 bbls. POP= .2 gal /10 bbls, start pump 5 bbl

EP WELLS DAILY OPERATIONS REPORT

Report 45

06/16/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								sweep x3 hr, mix at 5 gal/ Note: RIH to 20,434' and tagged sleeve declared "no-show" of final plug. PU 10' with PU weight of 60K. Waited at depth of 20,420' until 10/10/10 exits the reel.
6:40	7.45	COIL	PCT			0		10/10/10 sweep exits the reel. Begin POOH at 30 fpm. Dragging at weigh of 80K Circulating Pressure 6650 Wellhead Pressure 3650 10: 45 Reached depth of 13,500' pumped 10/10/10 gel sweep Circulating Pressure 6400 psi Wellhead Pressure 3500 POOH at 35 fpm and 60K weight 12:00 Reached depth of 11,486' (liner top) Circulating Pressure 6500 psi Wellhead Pressure 3500 psi POOH at and increase rate to 115 fpm and 36K weight
14:07	0.55	COIL	PCT			0		Bump up tools. 3600 psi Shut-in pressure. Cycle swab closed to verify tools are across wellhead. Cycle swab open and shut hydraulic UMW. Bleed off pressure through the 3" line. 14:10 Pause and discuss 7 steps. This paused included going over 9 questions for safe pressure test. Shut swab valve and fully shut in 3" line (hydraulic wing valves and riser valves) 14: 23 Open 2" line. Walk lines and verify valve alignment as compared to P&ID. Pressure test 2" line to 7K psi and begin bleed down to 3700 psi. Lightening spotted, bleed off and shut in 2" line and shut down operations.
14:40	5.83	COIL	PCT			1		NPT Weather. Shut down for lightening.
20:30	1.83	COIL	PCT			0		Verify valve alignment, match well pressure, open well and pump 450 bbls of frash water to flush linertop bring pumps on at 5 bpm 4000 PSI and pump full volume. 6 bpm=4100 PSI Finish pumping flush and secure well, bleed off all surface lines
22:20	1.67	COIL	PCT			1		shut down for weather
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.50	COIL	PCT			1	break from weather, rig down BOP's and move to next well

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
06/16/2018 14:40	SHELL	Wait On Weather		PCT	N		5.83	5.83	1	OPEN
Description: Shut down for lightning						Title: WOW				
06/16/2018 22:20	SHELL	Wait On Weather		PCT	N		3.17	3.17		OPEN
Description: lightning strikes within 10 miles of location						Title: shut down for weather				
Total							9.00	9.00		

EP WELLS DAILY OPERATIONS REPORT

Report 46

06/17/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	46.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	M Reber / D Cohen	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Tony Steele	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	1.50/100.00	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	3,907,988/4,584,091.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.85	LOT/FIT EMW(ppg)	
Daily Cost	0	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	45

Operations Summary

24 Hour Summary
mill plugs, flush liner top, rig down
Update Since Report Time
move to next well in cluster
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 46 06/17/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.50	COIL	PCT			1		break from weather, rig down BOP's and move to next well
Total	1.50							

EP WELLS DAILY OPERATIONS REPORT

Report 48

06/20/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	48.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Scott Wallace	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Tommy Hurdle	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	3,942,267/4,584,091.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.86	LOT/FIT EMW(ppg)	
Daily Cost	9,565	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	47

Operations Summary

24 Hour Summary
MIRU WL, run GR, run & set packer. Move to next well
Update Since Report Time
24 Hour Forecast
Other Pad Ops

EP WELLS DAILY OPERATIONS REPORT

Report 48

06/20/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	5.50	WINF	NOA			0		No Activity
5:30	0.50	WINF	SAF			0		Held safety meeting with day crew. Discussed job tasks, associated hazards, and mitigations. Covered UNCAAP focus areas, SSEs, and LFI.
6:00	6.50	WINF	RGU			0		Spot equipment, RU WL unit, RU BOPs, 1100 MU GR BHA w/ 6.01" GR. 1120 Load GR BHA into lubricator 1140 PU Lubricator 1155 Stab lubricator 1200 Conduct pressure tests: Low test, 500 psi for 5 mins, good. High test 8000 psi for 5 mins, good. Tests charted.
12:30	2.28	WINF	DRF			0		1230 Open 1007H well with 3800 psi 1235 RIH with GR 1350 Tag LT at 11,459' WLD. Apply -7 ft correction to correlate LT (with offset) to drilling LT depth of 11,486. Pull strip of first 5 collars for packer setting correlation. 1400 POOH with GR 1445 WL Bumped up, tool trap shut 1447 Shut in Well with 3800 psi
14:47	1.08	WINF	RGU			0		1447 Bleed off lubricator 1455 Break off lubricator and LD. Change out BHA to packer setting BHA. 1530 PU lubricator with packer setting BHA 1535 Stab lubricator 1550 Test lubricator to 5k, visual test. Test good.
15:52	3.13	WINF	SPB			0		1552 Open 1007H well with 3800 psi 1555 RIH with packer setting BHA 1730 Held safety meeting with night crew. Discussed job tasks, associated hazards, and mitigations. Covered UNCAAP focus areas, SSEs, and LFI. Went and conducted handovers. 1800 At depth with packer BHA. Pull up through collars to correlate. Apply +7 ft correction to get on depth. RIH to 11439', pull up past collar at 11429' to depth of 11,426.5'. With 13.5' spacing from CCL to packer center element, puts center element of packer at 11,440'. 1810 Set packer. Weight dropped from 2388 to 1645 lb, in burn time of 49 sec. 1813 POOH with packer. Bleed off well through 2" flowback line. 6 bbls returned. Negative test for 30 minutes. No pressure build up. Test good. Shut in and secure well.
19:00	0.25	WINF	SAF			0		Held TBT to discuss coming off the well and moving to 1002H
19:15	1.00	WINF	RGO			0		N/D WL BOPs and move to next well. N/U night cap. L/D lubricator and break tools. Start new report on the 1002H.
Total	20.25							

EP WELLS DAILY OPERATIONS REPORT

Report 49

06/21/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	49.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Scott Wallace	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Tommy Hurdle	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	3,969,050/4,584,091.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.87	LOT/FIT EMW(ppg)	
Daily Cost	20,794	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	48

Operations Summary

24 Hour Summary
N/U BOP's and test. R/U WOR and equipment.
Update Since Report Time
24 Hour Forecast
Run tubing. Circulate packer fluid. Land hanger. N/D BOP's and N/U production tree.

EP WELLS DAILY OPERATIONS REPORT

Report 49

06/21/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	8.00	WINF	OPO			0		Wait on OPO
8:00	2.00	WINF	RGO			0		ND frac tree and lay down pieces
10:00	2.00	WOR	OPO			0		Wait on OPO
12:00	0.50	WOR	RGU			0		HSM with WOR crew. Discuss operational plan for the day, and the associated risks and mitigations. Discussed UNCAAP focus areas, LFI, 12 LSR.
12:30	1.50	WOR	NUB			0		NU BOPs Function test BOPs, Good Test BOP blind rams, low test 500 psi for 5 mins, high test 8000 psi for 5 mins, test good. Test BOP pipe rams, low test 500 psi for 5 mins, high test 8000 psi for 5 mins, test good.
14:00	4.00	WOR	OPO			0		Wait on CT to RDMO, and for WL to move over to 1003 & 1004 1730 - Held Pre-Tower Safety Meeting. Discussed job task at hand w/ the 7 Steps of UnCAAP. Covered focus areas - Hands Free, Barriers, Line of Fire and DROPS. Then conducted their handovers.
18:00	4.75	WOR	RGU			0		Spot and R/U WOR.
22:45	1.00	WOR	PFT			0		Load pipe racks with tubing. Remove thread protectors and tally pipe.
23:45	0.25	WOR	SAF			0		Break for lunch
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.25	WOR	SAF			0	Break for lunch
0:15		WOR	TBG			0	M/U on/off tool. RIH w/ tubing 0530 - Held Pre-Tower Safety Meeting. Discussed job task at hand w/ the 7 Steps of UnCAAP and Own the Zone. Covered focus areas - Hands Free, Barriers, Line of Fire and DROPS. Then conducted their handovers.

EP WELLS DAILY OPERATIONS REPORT

Report 50

06/22/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	50.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Scott Wallace	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Tommy Hurdle	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	4,133,871/4,584,091.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.90	LOT/FIT EMW(ppg)	
Daily Cost	152,684	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	49

Operations Summary

24 Hour Summary
Run tubing. Circulate packer fluid. Land hanger. N/D BOP's and N/U production tree.
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 50

06/22/2018

Well UNIVERSITY 20 PW UNIT 1007H
Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.25	WOR	SAF			0		Break for lunch
0:15	9.08	WOR	TBG			0		M/U on/off tool. RIH w/ tubing 0530 - Held Pre-Tower Safety Meeting. Discussed job task at hand w/ the 7 Steps of UnCAAP and Own the Zone. Covered focus areas - Hands Free, Barriers, Line of Fire and DROPS. Then conducted their handovers. 0600 - Continue RIH with tubing
9:20	2.25	WOR	LPK			0		0920 - Tie back to single-fast to get margin for overpull. 0945 - Get weights: PU 78k, Hanging 64k, Slack-Off 58k. Tagged packer on jt #361 Trying to latch onto on/off tool. Difficulty getting it to latch. Adjust rig, turn pipe to left in 1/4-1/2 turn increments, work pipe. Get on/off tool to set by stacking out most of string weight on it. 1110 - On/off tool latched. Tested with overpull to 95k. Good. Marked pipe Released from on/off tool with no problems. L/D jts 361, 360, 359. Spaced out by PU (from bottom up) 8.10', 8.07', and 6.13' pups, then jt #359 (slick jt).
11:35	0.58	WOR	NOA			0		Lunch Break while waiting for WL to get off well with lubricator
12:10	5.83	WOR	SOH			0		1210 - Rig up lines to pump packer fluid 1345 - Start pumping packer fluid. 3 bpm @ 800 psi 1615 - Done pumping packer fluid. 440 bbl pumped at 3 bpm, until returns were clean 1630 - Run in hanger. Difficulty latching on/off tool again. Can only put down 8k weight due to space out. Installed additional 2.07' pup above 6 footer to get more weight. Worked down and latched on/off tool successfully. Tested overpull to 95k successfully. Landed hanger with 18 pts down on packer. 1705 - Run in pins on hanger. 1730 - Held Pre-Tower Safety Meeting. Discussed job task at hand w/ the 7 Steps of UnCAAP and Own the Zone. Covered focus areas - Hands Free, Barriers, Line of Fire and DROPS. Then conducted their handovers. 1800 - RD rig floor and bird bath
18:00	1.00	WOR	SOH			0		Install the BPV and then ND BOP stack. Remove the 7-1/16" gate valve. Continue RD and reposition the rig on the 1002H well.
19:00	1.50	WOR	SOH			0		Perform other pad operations.
20:30	2.50	WOR	SOH			0		Install Cameron production tree. Insure the choke outlet flange is level. Test the void space on the tubing hanger to 10,000-psi for 10-min (good test). Bleed off the pressure and pull the BPV. Install the TWC. Test the tree: - 500-psi for 5-min (good test). - 9800-psi for 10-min (leaking). Pull the TWC and change out the poppet valve. Reinstall the TWC and retest the tree to 9800-psi for 10-min (good). Pull the TWC and reinstall the top cap.
Total	23.00							

EP WELLS DAILY OPERATIONS REPORT

Report 51

06/25/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1007H
Wellbore	UNIVERSITY 20 PW UNIT 1007H
WBS No/API No	30281197 / 4249533890

Event Summary

Event Type	Completion only	Event Start Date	04/24/2018	Days on Location	51.00
Objective	Install Completion	Original Spud Date	12/02/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Scott Wallace	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Tommy Hurdle	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,820.70 / 2,792.70	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	4,178,449/4,584,091.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.91	LOT/FIT EMW(ppg)	
Daily Cost	31,836	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	50

Operations Summary

24 Hour Summary
Test tubing, burst disc, run BHP gauges on SL
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 51

06/25/2018

Well UNIVERSITY 20 PW UNIT 1007H
 Wellbore UNIVERSITY 20 PW UNIT 1007H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
10:00	0.75	WOR	PTT			0		Load tubing and pressure test to 5000 psi for 10 mins. Test good. Load backside with rig pump and pressure up to 2500 psi. Pressure up tubing to burst disc. Disc burst at 7200 psi. Stabilized at 3800 psi. Secure well.
10:45	2.25	WOR	OPO			0		Wait on other pad activities
13:00	4.00	WINF	DRF			0		1300 RU Slickline unit with lubricator package. 1400 Test lubricator to 500 psi low for 5 mins, 4500 high for 5 mins. Tests good and charted. 1430 GR run with 2.30' GR BHA, run successfully down to 11,427 SLD (XN profile) Change out tools for gauge hanger assembly. 1500 RIH with gauge hanger BHA. Set gauges at XN nipple profile at 11,427' successfully. POOH 1630 Out of hole. Shut in well and break off slickline lubricator. Secure wellhead and pressure wash well.
Total	7.00							