

EP WELLS DAILY OPERATIONS REPORT

Report 9

05/13/2021

Company PERMIAN
 Well Type Development
 Well UNIVERSITY 19 TG UNIT 1008H
 Wellbore UNIVERSITY 19 TG UNIT 1008H
 WBS No/API No 30331286 / 42301352160000



Event Summary

Event Type	Drilling only	Event Start Date	04/11/2021	Days on Location	8.02
Objective	Drill - New Well	Original Spud Date	04/15/2021	Days Since Spud	4.77
Est.Days	22.00	Contractor	Nabors Drilling		
Work Unit	Nabors X05	Days To Release			
		Rig Phone/FAX No.	(406) 798-3070		

Well Status

Supervisor	Heath McAfee	Measured Depth (ft)	3,510.00
Engineer	Mitch Collins	TVD (ft)	3,443.00
Other Supervisor	Andrew Maynor	24 Hr Progress (ft)	
Depth Ref/Grd Elev/Water Depth (ft)	DfE: 2,840.00 / 2,810.00	Hole Size (in)	
THF Datum			
Daily NPT (hr/%)	0.00/ 0.00	Last Casing MD	20.000 in@ 150.00 ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.630 in@ ft
Actual cost to date/AFE	945,000 / 2,930,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.32	LOT/FIT EMW (ppg)	
Daily Cost	\$16,400.00	Lithology	
		Formation/MDTop	

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	11/29/2019	531	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 Day's Since Last Drill	8

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

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Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
19:00	2.19	INT1	WLK		5,040.00	0		Walk Rig Well walking from: University 19PW 1309H Well walking to: University 19 PW 1009H Depth at end of step (MD) 30 ft
Total	2.19							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	DLeg (°/100ft)	Tool
3,064.00	14.60	126.00	3,005.00	1.57	PTW MWD+HDGM+AXIAL
3,155.00	13.00	129.00	3,094.00	1.96	PTW MWD+HDGM+AXIAL
3,245.00	11.70	130.00	3,182.00	1.52	PTW MWD+HDGM+AXIAL
3,335.00	10.10	134.00	3,270.00	1.97	PTW MWD+HDGM+AXIAL
3,426.00	8.08	141.00	3,360.00	2.49	PTW MWD+HDGM+AXIAL

Fluid Details

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1	TRIPEX	H&H / HHF 1600	12.00						
2	TRIPEX	H&H / HHF 1600	12.00						
3	TRIPEX	H&H / HHF 1600	12.00						

Remarks

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05/17/2021

Company PERMAN
 Well Type Development
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 WBS No/API No 30331286 / 42301352160000



Event Summary

Event Type	Drilling only	Event Start Date	04/11/2021	Days on Location	7.33
Objective	Drill - New Well	Original Spud Date	04/15/2021	Days Since Spud	4.09
Est.Days	22.00	Contractor	Nabors Drilling		
Work Unit	Nabors X05	Days To Release			
		Rig Phone/FAX No.	(406) 798-3070		

Well Status

Supervisor	Heath McAfee	Measured Depth (ft)	3,510.00
Engineer	Trevor Kelley	TVD (ft)	3,443.00
Other Supervisor	Doug Eubanks	24 Hr Progress (ft)	
Depth Ref/Grd Elev/Water Depth (ft)	DfE: 2,840.00 / 2,810.00	Hole Size (in)	
THF Datum			
Daily NPT (hr/%)	0.00/ 0.00	Last Casing MD	20.000 in@ 150.00 ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.630 in@ ft
Actual cost to date/AFE	958,200 / 2,930,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.33	LOT/FIT EMW (ppg)	
Daily Cost	\$28,700.00	Lithology	
		Formation/MDTop	

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	11/29/2019	535	TRCF LWCF Safety Cards - Safe Safety card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:	Held A&A conversation and seven step on Testing Bop'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 Day's Since Last Drill	9

Operations Summary

24 Hour Summary
Rig Release from the 1009H well at 16:30 hrs. Walk rig from the 1009H well to the 1008H well, Nipple up Bops and surface equipment, Testing Bop's.
Update Since Report Time
04:00, Finish testing bop's, Install Wear Bushing, Picking up 8 3/4" Intermediate BHA, Trip in hole and tag and drill DV tool at 1,173', Test casing to 1,500 psi 30 min.
24 Hour Forecast
Finish Test on casing to 1,500 psi for 30 min, Trip in hole and drill 9 5/8" casing shoe track, Drilling 8 3/4" Intermediate hole section.

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Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
16:30	1.25	INT1	WLK		5,040.00	0		Walk Rig Well walking from: 1009H Well walking to: 1008H Depth at end of step (MD) 5039 ft
17:45	1.99	INT1	RUP		5,040.00	0		Rig Up and Nipple Up BOPs Successful pressure test on SRL seals? YES
19:44	4.26	INT1	BOP		5,040.00	0		Full Pressure Test of BOPs Successful pressure test? YES Comments Still testing bops
Total	7.50							

06:00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Description
00:00	0.04	INT1	BOP		5,040.00	0	Full Pressure Test of BOPs Successful pressure test? YES Comments Still testing bops
00:02	1.14	INT1	BOP		5,040.00	0	Full Pressure Test of BOPs Successful pressure test? YES Test Charts https://eu001-sp.shell.com/i:/r/sites/permianuw2/Shared%20Documents/Drilling/LOVING%20%20TEXAS%20CENTRAL%20NAD27/UL1913P1/UNIVERSITY%2019%20TG%20UNIT%201008H/PARSABLE%20ATTACHMENTS/Test%20Charts_2021-05-18(1).jpg?csf=1&web=1 Test Charts https://eu001-sp.shell.com/i:/r/sites/permianuw2/Shared%20Documents/Drilling/LOVING%20%20TEXAS%20CENTRAL%20NAD27/UL1913P1/UNIVERSITY%2019%20TG%20UNIT%201008H/PARSABLE%20ATTACHMENTS/Test%20Charts_2021-05-18(2).jpg?csf=1&web=1 Test Charts https://eu001-sp.shell.com/i:/r/sites/permianuw2/Shared%20Documents/Drilling/LOVING%20%20TEXAS%20CENTRAL%20NAD27/UL1913P1/UNIVERSITY%2019%20TG%20UNIT%201008H/PARSABLE%20ATTACHMENTS/Test%20Charts_2021-05-18(3).jpg?csf=1&web=1 Test Charts https://eu001-sp.shell.com/i:/r/sites/permianuw2/Shared%20Documents/Drilling/LOVING%20%20TEXAS%20CENTRAL%20NAD27/UL1913P1/UNIVERSITY%2019%20TG%20UNIT%201008H/PARSABLE%20ATTACHMENTS/Test%20Charts_2021-05-18(4).jpg?csf=1&web=1 Test Charts https://eu001-sp.shell.com/i:/r/sites/permianuw2/Shared%20Documents/Drilling/LOVING%20%20TEXAS%20CENTRAL%20NAD27/UL1913P1/UNIVERSITY%2019%20TG%20UNIT%201008H/PARSABLE%20ATTACHMENTS/Test%20Charts_2021-05-18(5).jpg?csf=1&web=1 Blind Rams Low 332 psi Blind Rams High 5050 psi VBR Low 300 psi VBR High 5151 psi Annular High 3586 psi Annular Low 322 psi Standpipe Low 300 psi Standpipe High 5151 psi Choke Manifold 5107 psi
01:10	1.44	INT1	BHA		5,040.00	0	Pick up Intermediate BHA BHA number 2 Wear bushing installed? YES
02:37	0.51	INT1	TIH		5,040.00	0	Trip in Hole Trip from 755 ft Trip to 1100 ft Install rotating head? YES Install trip nipple? NO
03:07	0.71	INT1	DCM		5,040.00	0	Drill Out DV Tool Tag DV tool at 1173 ft Pump rate 450 GPM Weight on bit 20 lb

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Wellbore UNIVERSITY 19 TG UNIT 1008H



06:00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Description
03:50	4.62	INT1	DCM		5,040.00	0	Pressure Test Casing Successful pressure test? YES

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	DLeg (°/100ft)	Tool
0.00	0.00	358.00	0.00	0.00	PTW MWD+HDGM+AXIAL

Fluid Details

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1	TRIPEX	H&H / HHF 1600	12.00						
2	TRIPEX	H&H / HHF 1600	12.00						
3	TRIPEX	H&H / HHF 1600	12.00						

Remarks

University 19-13 PW Units 1009H, 1309H & TG Units 1008H, 1308H
(UL-19-13- P1) (FC)
Latitude: N 31° 42' 06.54"
Longitude: W 103° 23' 34.32"

HOSPITAL INFORMATION

Winkler County Memorial Hospital; 821 Jeffee Dr; Kermit, TX 79745 423-586-8299
Reeves County Hospital; 2323 S. Texas St; Pecos, TX 79772 432-447-3551

INSTRUCTIONS FROM NEAREST MAJOR INTERSECTION

NOTE: Heavy truck route: Large and Heavy loads need to use bonded route. Contact Shell HSSE department for bonded routes or access from the UA contractors website - <http://www.uacontractor.com/east/routes/index.php>

From Kermit - From Major Intersection Hwy 302 at State Hwy 115 Continue ahead on Hwy 302, 15.8 miles turn left at A-3 lease road and continue a head 5.7 miles (N 31° 42.6446', W 103° 19.6355') then turn right and continue ahead 2.6 miles, veer right then left around (Old Ranch Trailer) and continue ahead 2.1 miles, veer right and drive 0.5 miles. Turn right and continue ahead 0.8 miles onto location entrance on the left.

From Pecos - From Major Intersection Hwy 302 at Hwy 285 Turn right off Hwy 285 at Hwy 302, continue ahead 19.4 miles turn right at A-3 lease road and continue a head 5.7 miles (N 31° 42.6446', W 103° 19.6355') then turn right and continue ahead 2.6 miles, veer right then left around (Old Ranch Trailer) and continue ahead 2.1 miles, veer right and drive 0.5 miles. Turn right and continue ahead 0.8 miles onto location entrance on the left.

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Report 11

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 Wellbore UNIVERSITY 19 TG UNIT 1008H
 WBS No/API No 30331286 / 42301352160000



Event Summary

Event Type	Drilling only	Event Start Date	04/11/2021	Days on Location	8.33
Objective	Drill - New Well	Original Spud Date	04/15/2021	Days Since Spud	5.09
Est.Days	22.00	Contractor	Nabors Drilling		
Work Unit	Nabors X05	Days To Release			
		Rig Phone/FAX No.	(406) 798-3070		

Well Status

Supervisor	Heath McAfee	Measured Depth (ft)	3,510.00
Engineer	Trevor Kelley	TVD (ft)	3,443.00
Other Supervisor	Doug Eubanks	24 Hr Progress (ft)	
Depth Ref/Grd Elev/Water Depth (ft)	DfE: 2,840.00 / 2,810.00	Hole Size (in)	
THF Datum			
Daily NPT (hr/%)	0.00/ 0.00	Last Casing MD	20.000 in@ 150.00 ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.630 in@ ft
Actual cost to date/AFE	986,900 / 2,930,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.34	LOT/FIT EMW (ppg)	
Daily Cost	\$28,700.00	Lithology	
		Formation/MDTop	

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	11/29/2019	536	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			JSA's/Toolbox Talks	
Last BOP Function Test	05/18/2021	0	Day's Since Last Drill	10
Last BOP Test	05/18/2021	0		
Next BOP Test	06/08/2021			

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

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Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
00:00	0.04	INT1	BOP		5,040.00	0		Full Pressure Test of BOPs Successful pressure test? YES Comments Still testing bops
00:02	1.14	INT1	BOP		5,040.00	0		Full Pressure Test of BOPs Successful pressure test? YES Test Charts https://eu001-sp.shell.com/i:/r/sites/permanuw2/Shared%20Documents/Drilling/LOVING%20%20TEXAS%20CENTRAL%20NAD27/UL1913P1/UNIVERSITY%2019%20TG%20UNIT%201008H/PARSABLE%20ATTACHMENTS/Test%20Charts_2021-05-18(1).jpg?csf=1&web=1 Test Charts https://eu001-sp.shell.com/i:/r/sites/permanuw2/Shared%20Documents/Drilling/LOVING%20%20TEXAS%20CENTRAL%20NAD27/UL1913P1/UNIVERSITY%2019%20TG%20UNIT%201008H/PARSABLE%20ATTACHMENTS/Test%20Charts_2021-05-18(2).jpg?csf=1&web=1 Test Charts https://eu001-sp.shell.com/i:/r/sites/permanuw2/Shared%20Documents/Drilling/LOVING%20%20TEXAS%20CENTRAL%20NAD27/UL1913P1/UNIVERSITY%2019%20TG%20UNIT%201008H/PARSABLE%20ATTACHMENTS/Test%20Charts_2021-05-18(3).jpg?csf=1&web=1 Test Charts https://eu001-sp.shell.com/i:/r/sites/permanuw2/Shared%20Documents/Drilling/LOVING%20%20TEXAS%20CENTRAL%20NAD27/UL1913P1/UNIVERSITY%2019%20TG%20UNIT%201008H/PARSABLE%20ATTACHMENTS/Test%20Charts_2021-05-18(4).jpg?csf=1&web=1 Test Charts https://eu001-sp.shell.com/i:/r/sites/permanuw2/Shared%20Documents/Drilling/LOVING%20%20TEXAS%20CENTRAL%20NAD27/UL1913P1/UNIVERSITY%2019%20TG%20UNIT%201008H/PARSABLE%20ATTACHMENTS/Test%20Charts_2021-05-18(5).jpg?csf=1&web=1 Blind Rams Low 332 psi Blind Rams High 5050 psi VBR Low 300 psi VBR High 5151 psi Annular High 3586 psi Annular Low 322 psi Standpipe Low 300 psi Standpipe High 5151 psi Choke Manifold 5107 psi
01:10	1.44	INT1	BHA		5,040.00	0		Pick up Intermediate BHA BHA number 2 Wear bushing installed? YES
02:37	0.51	INT1	TIH		5,040.00	0		Trip in Hole Trip from 755 ft Trip to 1100 ft Install rotating head? YES Install trip nipple? NO
03:07	0.71	INT1	DCM		5,040.00	0		Drill Out DV Tool Tag DV tool at 1173 ft Pump rate 450 GPM Weight on bit 20 lb
03:50	4.62	INT1	DCM		5,040.00	0		Pressure Test Casing Successful pressure test? YES
08:27	1.41	INT1	TIH		5,040.00	0		Trip in Hole Trip from 1345 ft Trip to 4892 ft Install rotating head? YES
09:51	1.24	INT1	DCM		5,040.00	0		Drill Out 9 5/8" Shoe Track Tag float collar at 4950 ft Tag float shoe at 5041 ft

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Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Total 11.10

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	DLeg (°/100ft)	Tool
3,064.00	14.60	126.00	3,005.00	1.57	PTW MWD+HDGM+AXIAL
3,155.00	13.00	129.00	3,094.00	1.96	PTW MWD+HDGM+AXIAL
3,245.00	11.70	130.00	3,182.00	1.52	PTW MWD+HDGM+AXIAL
3,335.00	10.10	134.00	3,270.00	1.97	PTW MWD+HDGM+AXIAL
3,426.00	8.08	141.00	3,360.00	2.49	PTW MWD+HDGM+AXIAL

Fluid Details

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1	TRIPEX	H&H / HHF 1600	12.00						
2	TRIPEX	H&H / HHF 1600	12.00						
3	TRIPEX	H&H / HHF 1600	12.00						

Remarks

University 19-13 PW Units 1009H, 1309H & TG Units 1008H, 1308H
(UL-19-13- P1) (FC)
Latitude: N 31° 42' 06.54"
Longitude: W 103° 23' 34.32"

HOSPITAL INFORMATION

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Reeves County Hospital; 2323 S. Texas St; Pecos, TX 79772 432-447-3551

INSTRUCTIONS FROM NEAREST MAJOR INTERSECTION

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From Pecos - From Major Intersection Hwy 302 at Hwy 285 Turn right off Hwy 285 at Hwy 302, continue ahead 19.4 miles turn right at A-3 lease road and continue a head 5.7 miles (N 31° 42.6446', W 103° 19.6355') then turn right and continue ahead 2.6 miles, veer right then left around (Old Ranch Trailer) and continue ahead 2.1 miles, veer right and drive 0.5 miles. Turn right and continue ahead 0.8 miles onto location entrance on the left.

EP WELLS DAILY OPERATIONS REPORT

Report 12

05/19/2021

Company PERMAN
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 Wellbore UNIVERSITY 19 TG UNIT 1008H
 WBS No/API No 30331286 / 42301352160000



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Work Unit	Nabors X05	Days To Release			
		Rig Phone/FAX No.	(406) 798-3070		

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Engineer	Trevor Kelley	TVD (ft)	7,850.00
Other Supervisor	Doug Eubanks	24 Hr Progress (ft)	
Depth Ref/Grd Elev/Water Depth (ft)	DfE: 2,840.00 / 2,810.00	Hole Size (in)	
THF Datum			
Daily NPT (hr/%)	0.00/ 0.00	Last Casing MD	20.000 in@ 150.00 ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.630 in@ ft
Actual cost to date/AFE	1,085,200 / 2,930,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.37	LOT/FIT EMW (ppg)	
Daily Cost	\$59,600.00	Lithology	
		Formation/MDTop	

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	11/29/2019	537	TRCF LWCF Safety Cards - Safe Safety card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments: Held A&A conversation and seven step on Drilling and making connections. Held A&A conversation and seven step on off loading 7 5/8" casing string. Held A&A conversation and seven step on mixing sweeps.							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP Function Test	05/18/2021	1	Day's Since Last Drill	11
Last BOP Test	05/18/2021	1		
Next BOP Test	06/08/2021			

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 12

05/19/2021

Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
00:00	0.00	INT1	DRL		7,920.00	0		Drill Ahead 8 3/4" Hole Active mud weight 9.8 lb/gal Depth at end of step (MD) 7916 ft
Total	0.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	DLeg (°/100ft)	Tool
7,120.00	0.65	150.00	7,050.00	0.42	PTW MWD+HDGM+AXIAL
7,300.00	0.90	160.00	7,230.00	0.15	PTW MWD+HDGM+AXIAL
7,480.00	0.98	213.00	7,410.00	0.46	PTW MWD+HDGM+AXIAL
7,660.00	1.05	225.00	7,590.00	0.13	PTW MWD+HDGM+AXIAL
7,840.00	1.48	236.00	7,770.00	0.27	PTW MWD+HDGM+AXIAL

Fluid Details

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1	TRIPEX	H&H / HHF 1600	12.00						
2	TRIPEX	H&H / HHF 1600	12.00						
3	TRIPEX	H&H / HHF 1600	12.00						

Remarks

University 19-13 PW Units 1009H, 1309H & TG Units 1008H, 1308H
(UL-19-13- P1) (FC)
Latitude: N 31° 42' 06.54"
Longitude: W 103° 23' 34.32"

HOSPITAL INFORMATION

Winkler County Memorial Hospital; 821 Jeffee Dr; Kermit, TX 79745 423-586-8299
Reeves County Hospital; 2323 S. Texas St; Pecos, TX 79772 432-447-3551

INSTRUCTIONS FROM NEAREST MAJOR INTERSECTION

NOTE: Heavy truck route: Large and Heavy loads need to use bonded route. Contact Shell HSSE department for bonded routes or access from the UA contractors website - <http://www.uacontractor.com/east/routes/index.php>

From Kermit - From Major Intersection Hwy 302 at State Hwy 115 Continue ahead on Hwy 302, 15.8 miles turn left at A-3 lease road and continue a head 5.7 miles (N 31° 42.6446', W 103° 19.6355') then turn right and continue ahead 2.6 miles, veer right then left around (Old Ranch Trailer) and continue ahead 2.1 miles, veer right and drive 0.5 miles. Turn right and continue ahead 0.8 miles onto location entrance on the left.

From Pecos - From Major Intersection Hwy 302 at Hwy 285 Turn right off Hwy 285 at Hwy 302, continue ahead 19.4 miles turn right at A-3 lease road and continue a head 5.7 miles (N 31° 42.6446', W 103° 19.6355') then turn right and continue ahead 2.6 miles, veer right then left around (Old Ranch Trailer) and continue ahead 2.1 miles, veer right and drive 0.5 miles. Turn right and continue ahead 0.8 miles onto location entrance on the left.

EP WELLS DAILY OPERATIONS REPORT

Report 13

05/20/2021

Company PERMAN
 Well Type Development
 Well UNIVERSITY 19 TG UNIT 1008H
 Wellbore UNIVERSITY 19 TG UNIT 1008H
 WBS No/API No 30331286 / 42301352160000



Event Summary

Event Type	Drilling only	Event Start Date	04/11/2021	Days on Location	10.30
Objective	Drill - New Well	Original Spud Date	04/15/2021	Days Since Spud	7.09
Est.Days	22.00	Contractor	Nabors Drilling		
Work Unit	Nabors X05	Days To Release			
		Rig Phone/FAX No.	(406) 798-3070		

Well Status

Supervisor	Johnnie Brassell	Measured Depth (ft)	10,410.00
Engineer	Trevor Kelley	TVD (ft)	10,330.00
Other Supervisor	Doug Eubanks	24 Hr Progress (ft)	
Depth Ref/Grd Elev/Water Depth (ft)	DfE: 2,840.00 / 2,810.00	Hole Size (in)	
THF Datum			
Daily NPT (hr/%)	0.00/ 0.00	Last Casing MD	20.000 in@ 150.00 ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.630 in@ ft
Actual cost to date/AFE	1,118,100 / 2,930,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.38	LOT/FIT EMW (ppg)	
Daily Cost	\$44,900.00	Lithology	
		Formation/MDTop	

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	11/29/2019	538	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			JSA's/Toolbox Talks	
Last BOP Function Test	05/18/2021	2	Day's Since Last Drill	12
Last BOP Test	05/18/2021	2		
Next BOP Test	06/08/2021			

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 13

05/20/2021

Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
00:00	6.29	INT1	DRL		11,160.00	0		Drill Ahead 8 3/4" Hole Depth at end of step (MD) 11164 ft Active mud weight 9.8 lb/gal Backpressure while drilling 0 psi Backpressure during connections 0 psi Depth at which started circulating closed loop 9500 ft
06:17	1.64	INT1	CBU		11,160.00	0		Circulate Bottoms Up Number of bottoms up pumped 3 Number of ream downs performed 3 Active mud weight 9.8 lb/gal Flow rate 700 GPM Loss rate 0 bbl/hr
07:55	5.38	INT1	TOH		11,160.00	0		Trip Out of Hole Trip out from 11164 ft Trip out to 750 ft Active mud weight 9.8 lb/gal Bullhead required? YES Barrels pumped 147 bbl Kill mud weight 13.0 lb/gal Pull rotating head? YES Tight hole encountered? NO Reasons for trip TD
13:18	2.29	INT1	BHA		11,160.00	0		Lay Down BHA Laid down BHA # 2
Total	15.60							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	DLeg (°/100ft)	Tool
9,650.00	5.25	247.00	9,580.00	0.71	PTW MWD+HDGM+AXIAL
9,830.00	3.65	263.00	9,760.00	1.12	PTW MWD+HDGM+AXIAL
10,010.00	2.77	261.00	9,940.00	0.49	PTW MWD+HDGM+AXIAL
10,190.00	1.60	268.00	10,120.00	0.66	PTW MWD+HDGM+AXIAL
10,380.00	1.07	223.00	10,300.00	0.63	PTW MWD+HDGM+AXIAL

Fluid Details

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Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1	TRIPEX	H&H / HHF 1600	12.00						
2	TRIPEX	H&H / HHF 1600	12.00						
3	TRIPEX	H&H / HHF 1600	12.00						

Remarks

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EP WELLS DAILY OPERATIONS REPORT

Report 14

05/21/2021

Company PERMIAN
 Well Type Development
 Well UNIVERSITY 19 TG UNIT 1008H
 Wellbore UNIVERSITY 19 TG UNIT 1008H
 WBS No/API No 30331286 / 42301352160000



Event Summary

Event Type	Drilling only	Event Start Date	04/11/2021	Days on Location	11.30
Objective	Drill - New Well	Original Spud Date	04/15/2021	Days Since Spud	8.09
Est.Days	22.00	Contractor	Nabors Drilling		
Work Unit	Nabors X05	Days To Release			
		Rig Phone/FAX No.	(406) 798-3070		

Well Status

Supervisor	Johnnie Brassell	Measured Depth (ft)	11,160.00
Engineer	Trevor Kelley	TVD (ft)	11,090.00
Other Supervisor	Jason Morris	24 Hr Progress (ft)	
Depth Ref/Grd Elev/Water Depth (ft)	DfE: 2,840.00 / 2,810.00	Hole Size (in)	
THF Datum			
Daily NPT (hr/%)	0.00/ 0.00	Last Casing MD	9.630 in@ 5,040.00 ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.630 in@ 11,150.00 ft
Actual cost to date/AFE	1,208,700 / 2,930,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.41	LOT/FIT EMW (ppg)	
Daily Cost	\$56,100.00	Lithology	
		Formation/MDTop	

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	11/29/2019	539	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			JSA's/Toolbox Talks	
Last BOP Function Test	05/18/2021	3	Day's Since Last Drill	13
Last BOP Test	05/18/2021	3		
Next BOP Test	06/08/2021			

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 14

05/21/2021

Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
00:00	2.17	INT1	CLR		11,160.00	0		Run Intermediate Casing BTC Makeup Sheet https://eu001-sp.shell.com/i:/r/sites/permianuw2/Shared%20Documents/Drilling/Permian%20CWF%20WELL%20FILES/LOVING%20%20TEXAS%20CENTRAL%20NAD27/UL1913P1/UNIVERSITY%2019%20TG%20UNIT%201008H/PARSABLE%20ATTACHMENTS/BTC%20Makeup%20Sheet_2021-05-21.jpeg?csf=1&web=1 Run intermediate casing from 0 ft Run intermediate casing to 11110 ft Install rotating head? NO
02:10	0.91	INT1	LCH		11,160.00	0		Land Intermediate Casing Land casing at 11149 ft Weight casing landed at 140000 lb Successful pressure test on hanger? YES Pressure test hanger to 10000 psi Duration of pressure test 15 min Comments: R/d casing equipment while testing hanger seals.
03:04	0.59	INT1	RCC		11,160.00	0		R/U Cementers and Install Cement Head Is this step offline? NO
03:40	4.20	INT1	RCC		11,160.00	0		Pressure Test TPW, Fill Casing, and Circulate Hole BPV retrieved? YES Is this step offline? NO TPW pressure test successfully completed? YES Circulated a minimum of one casing volume? YES Was inducing flow required? YES
07:51	3.25	INT1	CEM		11,160.00	0		Pump Cement Job Is this step offline? NO TPW pressure test successfully completed? YES Freshwater spacer volume 50 bbl Lead cement volume 139 bbl Lead cement density 10.5 lb/gal Tail cement volume 38 bbl Tail cement density 14.5 lb/gal Heavy mud volume 520 bbl Heavy mud density 12.1 lb/gal Bumped plug? YES Bump plug displacement volume 518 bbl Successful 30 min pressure test on casing? YES Floats held? YES Bled back volume 3 bbl TRRC notified 5/20/2021 10:14:00 AM TRRC contact person Larissa 9:45 5-20-21
11:06	2.81	INT1	WHD		11,160.00	0		Rig Down Cementers Is this step offline? NO TA plug installed and tested? NO
13:54	2.26	MNH	BHA		11,160.00	0		Pick Up Curve BHA BHA number: 3 Wear bushing installed? YES Are all frac tanks tied into EDR? YES
Total	16.18							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	DLeg (°/100ft)	Tool
10,560.00	0.52	248.00	10,480.00	0.35	PTW MWD+HDGM+AXIAL
10,740.00	0.90	302.00	10,670.00	0.40	PTW MWD+HDGM+AXIAL
10,920.00	0.54	321.00	10,850.00	0.24	PTW MWD+HDGM+AXIAL
11,100.00	1.95	322.00	11,030.00	0.77	PTW MWD+HDGM+AXIAL
11,160.00	1.95	322.00	11,090.00	0.00	PTW MWD+HDGM+AXIAL

EP WELLS DAILY OPERATIONS REPORT

Report 14

05/21/2021

Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Fluid Details

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1	TRIPEX	H&H / HHF 1600	12.00						
2	TRIPEX	H&H / HHF 1600	12.00						
3	TRIPEX	H&H / HHF 1600	12.00						

Remarks

EP WELLS DAILY OPERATIONS REPORT

Report 15

05/22/2021

Company PERMAN
 Well Type Development
 Well UNIVERSITY 19 TG UNIT 1008H
 Wellbore UNIVERSITY 19 TG UNIT 1008H
 WBS No/API No 30331286 / 42301352160000



Event Summary

Event Type	Drilling only	Event Start Date	04/11/2021	Days on Location	12.30
Objective	Drill - New Well	Original Spud Date	04/15/2021	Days Since Spud	9.09
Est.Days	22.00	Contractor	Nabors Drilling		
Work Unit	Nabors X05	Days To Release			
		Rig Phone/FAX No.	(406) 798-3070		

Well Status

Supervisor	Johnnie Brassell	Measured Depth (ft)	11,200.00
Engineer	Trevor Kelley	TVD (ft)	11,130.00
Other Supervisor	Jason Morris	24 Hr Progress (ft)	
Depth Ref/Grd Elev/Water Depth (ft)	DFE: 2,840.00 / 2,810.00	Hole Size (in)	
THF Datum			
Daily NPT (hr/%)	0.00/ 0.00	Last Casing MD	7.630 in@ 11,150.00 ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500 in@ 22,740.00 ft
Actual cost to date/AFE	1,321,200 / 2,930,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.45	LOT/FIT EMW (ppg)	
Daily Cost	\$62,600.00	Lithology	
		Formation/MDTop	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	05/21/2021	1	PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	11/29/2019	540	TRCF LWCF Safety Cards - Safe Safety card - Unsafe SSE% Last casing pressure(psi)	2500
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP Function Test	05/18/2021	4	Day's Since Last Drill	1
Last BOP Test	05/18/2021	4		
Next BOP Test	06/08/2021			

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 15

05/22/2021

Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
00:00	0.18	MNH	DRL		11,200.00	0		Drill Ahead - Vertical Section to KOP Depth at end of step (MD) 11200 ft Active mud weight: 11.7 lb/gal MPD back pressure while drilling: 0 psi MPD back pressure during connections: 0 psi
00:10	0.78	MNH	DRL		11,230.00	0		Drill Ahead - Vertical Section to KOP Active mud weight: 11.7 lb/gal MPD back pressure while drilling: 0 psi MPD back pressure during connections: 0 psi Depth at end of step (MD) 11229 ft
00:57	14.80	MNH	DRC		12,010.00	0		Drill Ahead - Build Curve Depth at end of step (MD) 12011 ft Active mud weight: 12.0 lb/gal MPD back pressure while drilling: 0 psi MPD back pressure during connections: 0 psi Kick off point: 11229 ft Landing point: 12011 ft Flare height: 0 ft
15:45	1.38	MNH	CBU		12,010.00	0		Circulate Bottoms Up Number of bottoms up pumped: 2 Number of ream downs performed: 3 Active mud weight: 12.0 lb/gal Flow rate: 350 GPM Loss rate: 0 bbl/hr
Total	17.14							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	DLeg (°/100ft)	Tool
10,560.00	0.52	248.00	10,480.00	0.35	PTW MWD+HDGM+AXIAL
10,740.00	0.90	302.00	10,670.00	0.40	PTW MWD+HDGM+AXIAL
10,920.00	0.54	321.00	10,850.00	0.24	PTW MWD+HDGM+AXIAL
11,100.00	1.95	322.00	11,030.00	0.77	PTW MWD+HDGM+AXIAL
11,180.00	2.14	314.00	11,100.00	0.48	PTW MWD+HDGM+AXIAL

Fluid Details

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Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1	TRIPEX	H&H / HHF 1600	12.00						
2	TRIPEX	H&H / HHF 1600	12.00						
3	TRIPEX	H&H / HHF 1600	12.00						

Remarks

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EP WELLS DAILY OPERATIONS REPORT

Report 16

05/23/2021

Company PERMIAN
 Well Type Development
 Well UNIVERSITY 19 TG UNIT 1008H
 Wellbore UNIVERSITY 19 TG UNIT 1008H
 WBS No/API No 30331286 / 42301352160000



Event Summary

Event Type	Drilling only	Event Start Date	04/11/2021	Days on Location	13.30
Objective	Drill - New Well	Original Spud Date	04/15/2021	Days Since Spud	10.10
Est.Days	22.00	Contractor	Nabors Drilling		
Work Unit	Nabors X05	Days To Release			
		Rig Phone/FAX No.	(406) 798-3070		

Well Status

Supervisor	Johnnie Brassell	Measured Depth (ft)	12,010.00
Engineer	Trevor Kelley	TVD (ft)	11,680.00
Other Supervisor	Jason Morris	24 Hr Progress (ft)	
Depth Ref/Grd Elev/Water Depth (ft)	DFE: 2,840.00 / 2,810.00	Hole Size (in)	
THF Datum			
Daily NPT (hr/%)	0.00/ 0.00	Last Casing MD	7.630 in@ 11,150.00 ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500 in@ 22,740.00 ft
Actual cost to date/AFE	1,396,500 / 2,930,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.48	LOT/FIT EMW (ppg)	
Daily Cost	\$55,700.00	Lithology	
		Formation/MDTop	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	05/21/2021	2	PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	11/29/2019	541	TRCF LWCF Safety Cards - Safe Safety card - Unsafe SSE% Last casing pressure(psi)	2500
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP Function Test	05/18/2021	5	Day's Since Last Drill	2
Last BOP Test	05/18/2021	5		
Next BOP Test	06/08/2021			

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 16

05/23/2021

Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
00:00	1.24	MNH	BHA		12,010.00	0		Handle BHA Laid Down BHA # 3 Picked up BHA # 4
00:00	0.19	MNH	BHA		12,010.00	0		Handle BHA Offline Is this step offline? Yes Winch and line rated for BHA weight? Yes BHA weights verified with Directional Driller? Yes Time that lateral BHA was picked up: 5/22/2021 9:30:00 AM
01:14	4.92	MNH	TIH		12,010.00	0		Trip in Hole Trip in from: 102 ft Trip in to: 12011 ft Install rotating head? YES Pressure drop across agitator/shock sub: 500 psi
08:45		MNH			12,010.00	1		Start of Geostreering issue
09:47		MNH			12,010.00	1		End of Geostreering issue
Total	6.35							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	DLeg (°/100ft)	Tool
11,540.00	31.90	327.00	11,440.00	6.56	PTW MWD+HDGM+AXIAL
11,630.00	40.60	330.00	11,520.00	9.81	PTW MWD+HDGM+AXIAL
11,720.00	51.90	335.00	11,580.00	13.20	PTW MWD+HDGM+AXIAL
11,810.00	63.90	338.00	11,630.00	13.40	PTW MWD+HDGM+AXIAL
11,900.00	76.90	338.00	11,660.00	14.40	PTW MWD+HDGM+AXIAL

Fluid Details

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1	TRIPEX	H&H / HHF 1600	12.00						
2	TRIPEX	H&H / HHF 1600	12.00						
3	TRIPEX	H&H / HHF 1600	12.00						

Remarks

EP WELLS DAILY OPERATIONS REPORT

Report 17

05/24/2021

Company PERMAN
 Well Type Development
 Well UNIVERSITY 19 TG UNIT 1008H
 Wellbore UNIVERSITY 19 TG UNIT 1008H
 WBS No/API No 30331286 / 42301352160000



Event Summary

Event Type	Drilling only	Event Start Date	04/11/2021	Days on Location	14.30
Objective	Drill - New Well	Original Spud Date	04/15/2021	Days Since Spud	11.10
Est.Days	22.00	Contractor	Nabors Drilling		
Work Unit	Nabors X05	Days To Release			
		Rig Phone/FAX No.	(406) 798-3070		

Well Status

Supervisor	Johnnie Brassell	Measured Depth (ft)	14,340.00
Engineer	Trevor Kelley	TVD (ft)	11,660.00
Other Supervisor	Jason Morris	24 Hr Progress (ft)	
Depth Ref/Grd Elev/Water Depth (ft)	DFE: 2,840.00 / 2,810.00	Hole Size (in)	
THF Datum			
Daily NPT (hr/%)	0.00/ 0.00	Last Casing MD	7.630 in@ 11,150.00 ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500 in@ 22,740.00 ft
Actual cost to date/AFE	1,700,800 / 2,930,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.58	LOT/FIT EMW (ppg)	
Daily Cost	\$51,900.00	Lithology	
		Formation/MDTop	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	05/21/2021	3	PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	11/29/2019	542	TRCF LWCF Safety Cards - Safe Safety card - Unsafe SSE% Last casing pressure(psi)	2500
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP Function Test	05/18/2021	6	Day's Since Last Drill	3
Last BOP Test	05/18/2021	6		
Next BOP Test	06/08/2021			

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 17

05/24/2021

Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
00:00	0.00	MNH	DRH		14,340.00	0		Drill Ahead - Lateral Drill from (MD): 12011 ft Depth at end of step (MD) 14296 ft Active mud weight: 12 lb/gal MPD back pressure during connections: 550 psi MPD back pressure while drilling: 0 psi Apparent pore pressure: 12.0 lb/gal
Total	0.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	DLeg (°/100ft)	Tool
14,040.00	90.10	342.00	11,660.00	1.64	PTW MWD+HDGM+AXIAL
14,140.00	90.40	346.00	11,660.00	1.96	PTW MWD+HDGM+AXIAL
14,140.00	90.40	344.00	11,660.00	1.65	PTW MWD+HDGM+AXIAL
14,240.00	89.80	343.00	11,660.00	2.83	PTW MWD+HDGM+AXIAL
14,340.00	88.30	339.00	11,660.00	4.32	PTW MWD+HDGM+AXIAL

Fluid Details

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1	TRIPEX	H&H / HHF 1600	12.00						
2	TRIPEX	H&H / HHF 1600	12.00						
3	TRIPEX	H&H / HHF 1600	12.00						

Remarks

EP WELLS DAILY OPERATIONS REPORT

Report 18

05/25/2021

Company PERMAN
 Well Type Development
 Well UNIVERSITY 19 TG UNIT 1008H
 Wellbore UNIVERSITY 19 TG UNIT 1008H
 WBS No/API No 30331286 / 42301352160000



Event Summary

Event Type	Drilling only	Event Start Date	04/11/2021	Days on Location	15.30
Objective	Drill - New Well	Original Spud Date	04/15/2021	Days Since Spud	12.10
Est.Days	22.00	Contractor	Nabors Drilling		
Work Unit	Nabors X05	Days To Release			
		Rig Phone/FAX No.	(406) 798-3070		

Well Status

Supervisor	Johnnie Brassell	Measured Depth (ft)	19,940.00
Engineer	Trevor Kelley	TVD (ft)	11,650.00
Other Supervisor	Jason Morris	24 Hr Progress (ft)	2,210.00
Depth Ref/Grd Elev/Water Depth (ft)	DFE: 2,840.00 / 2,810.00	Hole Size (in)	
THF Datum			
Daily NPT (hr/%)	0.00/ 0.00	Last Casing MD	7.630 in@ 11,150.00 ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500 in@ 22,740.00 ft
Actual cost to date/AFE	1,828,600 / 2,930,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.62	LOT/FIT EMW (ppg)	
Daily Cost	\$55,700.00	Lithology	
		Formation/MDTop	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	05/21/2021	4	PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	11/29/2019	543	TRCF LWCF Safety Cards - Safe Safety card - Unsafe SSE% Last casing pressure(psi)	2500

Safety Comments:

No HSE Issues.

Held A&A conversation on picking up DP and making connections while drilling.

Held A&A conversation on transferring OBM from trucks to frac tanks.

Held A&A conversation on cleaning, drifting & tallying production casing.

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP Function Test	05/18/2021	7	Day's Since Last Drill	4
Last BOP Test	05/18/2021	7		
Next BOP Test	06/08/2021			

Operations Summary

24 Hour Summary
Drill ahead 6 3/4" lateral section f/ 17,763' t/ 19,971'.
Update Since Report Time
Drill ahead 6 3/4" lateral section f/ 19,971' t/ 20,167'.
24 Hour Forecast
Drill 6 3/4" lateral section as per program.

EP WELLS DAILY OPERATIONS REPORT

Report 18

05/25/2021

Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
00:00	24.00	MNH	DRH		19,940.00	0		Drill Ahead - Lateral Drill from (MD): 17763 ft Active mud weight: 12 lb/gal MPD back pressure while drilling: 0 psi MPD back pressure during connections: 550 psi Depth at end of step (MD) 19971 ft
Total	24.00							

06:00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Description
00:00	8.50	MNH	DRH		20,440.00	0	Drill Ahead - Lateral Drill from (MD): 19971 ft Active mud weight: 12 lb/gal MPD back pressure while drilling: 0 psi MPD back pressure during connections: 550 psi Depth at end of step (MD) 20414 ft

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	DLeg (°/100ft)	Tool
19,640.00	91.30	339.00	11,660.00	1.22	PTW MWD+HDGM+AXIAL
19,740.00	92.00	339.00	11,660.00	0.73	PTW MWD+HDGM+AXIAL
19,840.00	92.00	338.00	11,660.00	1.34	PTW MWD+HDGM+AXIAL
19,940.00	90.70	339.00	11,650.00	3.10	PTW MWD+HDGM+AXIAL
19,940.00	92.60	337.00	11,650.00	1.05	PTW MWD+HDGM+AXIAL

Fluid Details

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1	TRIPEX	H&H / HHF 1600	12.00						
2	TRIPEX	H&H / HHF 1600	12.00						
3	TRIPEX	H&H / HHF 1600	12.00						

EP WELLS DAILY OPERATIONS REPORT

Report 18

05/25/2021

Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Remarks

University 19-13 PW Units 1009H, 1309H & TG Units 1008H, 1308H
(UL-19-13- P1) (FC)
Latitude: N 31° 42' 06.54"
Longitude: W 103° 23' 34.32"

HOSPITAL INFORMATION

Winkler County Memorial Hospital; 821 Jeffee Dr; Kermit, TX 79745 423-586-8299
Reeves County Hospital; 2323 S. Texas St; Pecos, TX 79772 432-447-3551

INSTRUCTIONS FROM NEAREST MAJOR INTERSECTION

NOTE: Heavy truck route: Large and Heavy loads need to use bonded route. Contact Shell HSSE department for bonded routes or access from the UA contractors website - <http://www.uacontractor.com/east/routes/index.php>

From Kermit - From Major Intersection Hwy 302 at State Hwy 115 Continue ahead on Hwy 302, 15.8 miles turn left at A-3 lease road and continue a head 5.7 miles (N 31° 42.6446', W 103° 19.6355') then turn right and continue ahead 2.6 miles, veer right then left around (Old Ranch Trailer) and continue ahead 2.1 miles, veer right and drive 0.5 miles. Turn right and continue ahead 0.8 miles onto location entrance on the left.

From Pecos - From Major Intersection Hwy 302 at Hwy 285 Turn right off Hwy 285 at Hwy 302, continue ahead 19.4 miles turn right at A-3 lease road and continue a head 5.7 miles (N 31° 42.6446', W 103° 19.6355') then turn right and continue ahead 2.6 miles, veer right then left around (Old Ranch Trailer) and continue ahead 2.1 miles, veer right and drive 0.5 miles. Turn right and continue ahead 0.8 miles onto location entrance on the left.

EP WELLS DAILY OPERATIONS REPORT

Report 19

05/26/2021

Company PERMAN
 Well Type Development
 Well UNIVERSITY 19 TG UNIT 1008H
 Wellbore UNIVERSITY 19 TG UNIT 1008H
 WBS No/API No 30331286 / 42301352160000



Event Summary

Event Type	Drilling only	Event Start Date	04/11/2021	Days on Location	16.30
Objective	Drill - New Well	Original Spud Date	04/15/2021	Days Since Spud	13.10
Est.Days	22.00	Contractor	Nabors Drilling		
Work Unit	Nabors X05	Days To Release			
		Rig Phone/FAX No.	(406) 798-3070		

Well Status

Supervisor	Jason Morris	Measured Depth (ft)	19,940.00
Engineer	Trevor Kelley	TVD (ft)	11,650.00
Other Supervisor	Richard Hurtt	24 Hr Progress (ft)	
Depth Ref/Grd Elev/Water Depth (ft)	DFE: 2,840.00 / 2,810.00	Hole Size (in)	
THF Datum			
Daily NPT (hr/%)	0.00/ 0.00	Last Casing MD	7.630 in@ 11,150.00 ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500 in@ 22,740.00 ft
Actual cost to date/AFE	1,881,100 / 2,930,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.64	LOT/FIT EMW (ppg)	
Daily Cost	\$52,500.00	Lithology	
		Formation/MDTop	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	05/21/2021	5	PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	11/29/2019	544	TRCF LWCF Safety Cards - Safe Safety card - Unsafe SSE% Last casing pressure(psi)	2500
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP Function Test	05/18/2021	8	Day's Since Last Drill	5
Last BOP Test	05/18/2021	8		
Next BOP Test	06/08/2021			

Operations Summary

24 Hour Summary
Drill ahead 6 3/4" lateral f/ 19,971' t/
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 19

05/26/2021

Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
00:00	8.50	MNH	DRH		20,440.00	0		Drill Ahead - Lateral Drill from (MD): 19971 ft Active mud weight: 12 lb/gal MPD back pressure while drilling: 0 psi MPD back pressure during connections: 550 psi Depth at end of step (MD) 20414 ft
08:30	0.50	MNH	SVC		20,440.00	0		Rig Service Comments: Rig service
Total	9.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	DLeg (°/100ft)	Tool
19,640.00	91.30	339.00	11,660.00	1.22	PTW MWD+HDGM+AXIAL
19,740.00	92.00	339.00	11,660.00	0.73	PTW MWD+HDGM+AXIAL
19,840.00	92.00	338.00	11,660.00	1.34	PTW MWD+HDGM+AXIAL
19,940.00	90.70	339.00	11,650.00	3.10	PTW MWD+HDGM+AXIAL
19,940.00	92.60	337.00	11,650.00	1.05	PTW MWD+HDGM+AXIAL

Fluid Details

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1	TRIPEX	H&H / HHF 1600	12.00						
2	TRIPEX	H&H / HHF 1600	12.00						
3	TRIPEX	H&H / HHF 1600	12.00						

Remarks

University 19-13 PW Units 1009H, 1309H & TG Units 1008H, 1308H
(UL-19-13- P1) (FC)
Latitude: N 31° 42' 06.54"
Longitude: W 103° 23' 34.32"

HOSPITAL INFORMATION

Winkler County Memorial Hospital; 821 Jeffee Dr; Kermit, TX 79745 423-586-8299
Reeves County Hospital; 2323 S. Texas St; Pecos, TX 79772 432-447-3551

INSTRUCTIONS FROM NEAREST MAJOR INTERSECTION

NOTE: Heavy truck route: Large and Heavy loads need to use bonded route. Contact Shell HSSE department for bonded routes or access from the UA contractors website - <http://www.uacontractor.com/east/routes/index.php>

From Kermit - From Major Intersection Hwy 302 at State Hwy 115 Continue ahead on Hwy 302, 15.8 miles turn left at A-3 lease road and continue a head 5.7 miles (N 31° 42.6446', W 103° 19.6355') then turn right and continue ahead 2.6 miles, veer right then left around (Old Ranch Trailer) and continue ahead 2.1 miles, veer right and drive 0.5 miles. Turn right and continue ahead 0.8 miles onto location entrance on the left.

From Pecos - From Major Intersection Hwy 302 at Hwy 285 Turn right off Hwy 285 at Hwy 302, continue ahead 19.4 miles turn right at A-3 lease road and continue a head 5.7 miles (N 31° 42.6446', W 103° 19.6355') then turn right and continue ahead 2.6 miles, veer right then left around (Old Ranch Trailer) and continue ahead 2.1 miles, veer right and drive 0.5 miles. Turn right and continue ahead 0.8 miles onto location entrance on the left.

EP WELLS DAILY OPERATIONS REPORT

Report 23

05/31/2021

Company PERMIAN
 Well Type Development
 Well UNIVERSITY 19 TG UNIT 1008H
 Wellbore UNIVERSITY 19 TG UNIT 1008H
 WBS No/API No 30331286 / 42301352160000



Event Summary

Event Type	Drilling only	Event Start Date	04/11/2021	Days on Location	20.30
Objective	Drill - New Well	Original Spud Date	04/15/2021	Days Since Spud	17.10
Est.Days	22.00	Contractor	Nabors Drilling		
Work Unit	Nabors X05	Days To Release			
		Rig Phone/FAX No.	(406) 798-3070		

Well Status

Supervisor	Jason Morris	Measured Depth (ft)	22,940.00
Engineer	Trevor Kelley	TVD (ft)	11,650.00
Other Supervisor	Richard Hurtt	24 Hr Progress (ft)	
Depth Ref/Grd Elev/Water Depth (ft)	DFE: 2,840.00 / 2,810.00	Hole Size (in)	6.750
THF Datum			
Daily NPT (hr/%)	0.00/ 0.00	Last Casing MD	7.630 in@ 11,150.00 ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500 in@ 22,740.00 ft
Actual cost to date/AFE	2,342,800 / 2,930,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.80	LOT/FIT EMW (ppg)	
Daily Cost	\$65,000.00	Lithology	
		Formation/MDTop	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	05/21/2021	10	PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	11/29/2019	549	TRCF LWCF Safety Cards - Safe Safety card - Unsafe SSE% Last casing pressure(psi)	2500
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP Function Test	05/18/2021	13	Day's Since Last Drill	2
Last BOP Test	05/18/2021	13		
Next BOP Test	06/08/2021			

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 23

05/31/2021

Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
22:24	1.59	MNH	RCC		22,940.00	0		R/D Casing Running Tools, R/U Cementers and Circulate Hole Is this step offline? NO Pre-job checks complete? YES Circulated a minimum of one casing volume? YES Flow rate: 210 GPM Losses at planned displacement rate? NO
00:00	0.99	MNH	RCC		22,940.00	0		R/D Casing Running Tools, R/U Cementers and Circulate Hole Is this step offline? NO Pre-job checks complete? YES Circulated a minimum of one casing volume? YES Flow rate: 210 GPM Losses at planned displacement rate? NO
00:59	3.85	MNH	CEM		22,940.00	0		Perform Production Cement Job Is this step offline? NO TPW pressure test successful? YES Spacer volume: 50 bbl Spacer density: 12.8 lb/gal Cement volume: 399 bbl Cement density: 13.5 lb/gal Displacement volume: 433 bbl Displacement density: 9.5 lb/gal Estimated losses during displacement: 0 bbl Plug bumped? YES Successful pressure test to 500 psi over FCP for 10 min? YES Floats held? YES Pressure trapped on 5-1/2" x 7-5/8" annulus: 500 psi Volume bled back: 4.5 bbl SOVs closed? YES
04:50	0.40	MNH	WHD		22,940.00	0		Rig Down Cementers, L/D Landing Joint Is this step offline? NO Side outlet valves closed? YES
05:14	0.15	MNH	WHD		22,940.00	0		Install BPV BPV installed at: 5/31/2021 5:23:00 AM
05:23	2.11	MNH	PRW		22,940.00	0		Prep Rig to Walk / Prepare for Rig Move Rig released from well at: 5/31/2021 7:30:00 AM
Total	9.09							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	DLeg (°/100ft)	Tool
22,640.00	88.40	338.00	11,640.00	2.77	PTW MWD+HDGM+AXIAL
22,740.00	88.90	338.00	11,640.00	0.84	PTW MWD+HDGM+AXIAL
22,740.00	89.30	338.00	11,650.00	0.36	PTW MWD+HDGM+AXIAL
22,840.00	89.50	338.00	11,650.00	0.61	PTW MWD+HDGM+AXIAL
22,940.00	89.50	338.00	11,650.00	0.00	PTW MWD+HDGM+AXIAL

Fluid Details

EP WELLS DAILY OPERATIONS REPORT

Report 23

05/31/2021

Well UNIVERSITY 19 TG UNIT 1008H
Wellbore UNIVERSITY 19 TG UNIT 1008H



Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
4.5" S135 Range III DP (16.6#)	1	0.00	5.000						Rig
Agitator/Shock Sub Combo	1	11,840.00	5.370						W-1698728
26 STANDS DP	26	14,210.00	5.000						BD8055
HIGH PRESSURE FLOAT	1	11,856.00	5.750						FS475566
PIN TO PIN	1	11,853.00	5.750						BD8055
SCREEN SUB	1	11,851.00	5.750						DR32641
Non-Mag Drill Collar	1	11,848.00	5.750						P550018
Velocity Tool Carrier Assembly w/ GAP sub	1	11,819.00	5.000						BD8055
NMPC	1	11,800.00	5.750						P550018
5.76" 6/7 8.8 FBH@1.5° TS w/Float Installed	1	11,886.00	6.000						PHX576049
Run #1 Bit #4 6.75" Baker D405THS(TX31245R) SN:5319428	1	1.00	6.750						5319428

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
05/23/2021 01:10		4	1.00		DRILL 6.75" LATERAL SECTION

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1	TRIPEX	H&H / HHF 1600	12.00						
2	TRIPEX	H&H / HHF 1600	12.00						
3	TRIPEX	H&H / HHF 1600	12.00						

Remarks