

EP WELLS DAILY OPERATIONS REPORT

Report 1

04/23/2021

Company PERMAN
 Well Type Development
 Well UNIVERSITY 19 TG UNIT 1308H
 Wellbore UNIVERSITY 19 TG UNIT 1308H
 WBS No/API No 30319069 / 42301352180000



Event Summary

Event Type	Drilling only	Event Start Date	04/22/2021	Days on Location	0.15
Objective	Drill - New Well	Original Spud Date		Days Since Spud	0.00
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)	
Engineer	Mitch Collins	TVD (ft)	
Other Supervisor	Jason Morris, Brett McCoy	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	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	5,720 / 2,910,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.00	LOT/FIT EMW (ppg)	
Daily Cost	\$5,720.00	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	511	TRCF LWCF Safety Cards - Safe Safety card - Unsafe SSE% Last casing pressure(psi)	

Safety Comments:

No HSE Issues.

Held A&A conversation on walking rig.

Held A&A conversation on picking up BHA.

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	1

Operations Summary

24 Hour Summary

Walk rig from 1309H to 1308H. Accept rig at 21:30 hrs. Rig up for drilling operations. Pick up 12 1/4" BHA #1.

Update Since Report Time

Finish picking up 12 1/4" BHA #1. Tag up at 150'. Spud and drill ahead 12 1/4" surface section f/ 150' t/ 592'.

24 Hour Forecast

Drill 12 1/4" surface section as per program.

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
20:49	0.78	SRF	WLK		0.00	0		Walk Rig Well walking from: 1309H Well walking to: 1308H Depth at end of step (MD) 0 ft
21:36	1.74	SRF	RUP		0.00	0		Rig Up
23:21	0.64	SRF	BHA		0.00	0		Pick Up Surface BHA Comments: Tagged bottom at 150'.
Total	3.16							

06:00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Description
00:00	1.07	SRF	BHA		0.00	0	Pick Up Surface BHA Comments: Tagged bottom at 150'.

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 2

04/24/2021

Company PERMAN
 Well Type Development
 Well UNIVERSITY 19 TG UNIT 1308H
 Wellbore UNIVERSITY 19 TG UNIT 1308H
 WBS No/API No 30319069 / 42301352180000



Event Summary

Event Type	Drilling only	Event Start Date	04/22/2021	Days on Location	1.15
Objective	Drill - New Well	Original Spud Date		Days Since Spud	0.96
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)	
Engineer	Mitch Collins	TVD (ft)	
Other Supervisor	Jason Morris, Brett McCoy	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	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	41,720 / 2,910,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.01	LOT/FIT EMW (ppg)	
Daily Cost	\$36,000.00	Lithology	
		Formation/MDTop	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	11/29/2019	512	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	2

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 2

04/24/2021

Well UNIVERSITY 19 TG UNIT 1308H
Wellbore UNIVERSITY 19 TG UNIT 1308H



Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
00:00	1.07	SRF	BHA		0.00	0		Pick Up Surface BHA Comments: Tagged bottom at 150'.
Total	1.07							

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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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>

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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 ahead 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 3

04/25/2021

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 Well Type Development
 Well UNIVERSITY 19 TG UNIT 1308H
 Wellbore UNIVERSITY 19 TG UNIT 1308H
 WBS No/API No 30319069 / 42301352180000



Event Summary

Event Type	Drilling only	Event Start Date	04/22/2021	Days on Location	2.15
Objective	Drill - New Well	Original Spud Date		Days Since Spud	1.96
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)	4,310.00
Engineer	Mitch Collins	TVD (ft)	4,260.00
Other Supervisor	Jason Morris, Brett McCoy	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@ 5,040.00 ft
Actual cost to date/AFE	108,420 / 2,910,000.00	Current MWM / BH EMW (ppg)	
Actual Divided by AFE	0.04	LOT/FIT EMW (ppg)	
Daily Cost	\$47,800.00	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	513	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	1

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 3

04/25/2021

Well UNIVERSITY 19 TG UNIT 1308H
Wellbore UNIVERSITY 19 TG UNIT 1308H



Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT Level	Rig Rate	Description
00:00	0.70	SRF	DRL		4,310.00	0		Spud Well and Drill 12 1/4" Hole Depth at end of step (MD) 4311 ft Active mud weight 9.0 lb/gal Depth at which circulation started on open loop 1050 ft Shallow gas encountered? NO
00:41	2.64	SRF	DRL		5,040.00	0		Drill Ahead - 12 1/4" Hole Active mud weight: 9.0 lb/gal Loss rate: 300 bbl/hr Shallow gas encountered? NO Depth at which circulation started on open loop: 1050 ft Comments: Static loss rate: 300 bbls/hr. Depth at end of step (MD) 5040 ft
03:20	2.86	SRF	CBU		5,040.00	0		Perform Cleanup Cycles Loss rate at TD 300 bbl/hr Less than 80% returns at TD? NO Washout volume 900 bbl
06:11	2.98	SRF	TOH		5,040.00	0		Trip Out of Hole Trip out from 5040 ft Trip out to 140 ft Active mud weight 9.5 lb/gal Rotating head removed? YES
09:10	1.06	SRF	BHA		5,040.00	0		Lay Down BHA Bit Grade 1 0 N BT X 0 NO TD
10:13	6.99	SRF	RIC		5,040.00	0		RU Casing Running Tools
17:12	0.01	SRF	CLR		5,040.00	0		Run Surface Casing Run surface casing from 0 ft Run surface casing to 5038 ft
Total	17.24							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	DLeg (°/100ft)	Tool
3,517.00	1.14	354.00	3,465.00	0.79	PTW MWD+HDGM+AXIAL
3,698.00	1.41	11.80	3,645.00	0.26	PTW MWD+HDGM+AXIAL
3,880.00	1.20	12.00	3,827.00	0.12	PTW MWD+HDGM+AXIAL
4,060.00	1.51	64.90	4,010.00	0.68	PTW MWD+HDGM+AXIAL
4,240.00	1.23	94.10	4,190.00	0.41	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