



DAILY DRILLING REPORT

RPT DATE: 9/2/2021

RPT NUM.: 2

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE:
MD/TVD: 0 FT/0 FT
PRESENT OPERATIONS:
ACTIVITY PLANNED:

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS:
24 HR FTG:

RIG SUPERV: CHRIS BLODGETT / MICHAEL MCCARTY
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 1
HRS DRLG:

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
9/2/2021	9/3/2021	None	SETTING IN RIG COMPONENTS & RIGGING UP WITH BRADY TRUCKING

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021
83 MILE RIG MOVE
42 HOUR (1.75 DAYS) RIG MOVE
SPUD AT 00:00 HRS ON 09/06/21

00:00-06:00 WAIT ON DAYLIGHT

NO ACCIDENTS OR INCIDENTS

COST DATA

DRILLING AFE AMT: \$3,638,250 DAILY DRILL COST: \$105,029 CUM DRILL COST: \$168,918 CUM MUD COST: CUM WELL COST: \$168,918

BOP

LAST BOP TEST: LAST BOP DRILL: NEXT BOP TEST:

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
								0						

BIT NO. INNER: OUTER: DULL: LOC: SEAL: GAUGE: OTHER: RP:

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH

DESCRIPTION:
LENGTH: BHA WT. AIR: BHA WT. MUD: HRS. ON JARS:
ROT. WT.: P.U. WT.: S.O. WT.: TORQUE:

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,205	200	7,005

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments



DAILY DRILLING REPORT

RPT DATE: 10/14/2021

RPT NUM.: 13

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC005

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/8/2021

MD/TVD: 5016 FT/4986 FT

PRESENT OPERATIONS: NIPPLE UP BOP'S, RAISE CATWALD

ACTIVITY PLANNED: TEST BOP'S, M/U DRILL OUT BHA, TIH, DRILL OUT CEMENT IN SURFACE CASING

JOB: DRILLING

LEASE: UL JEFF EAST A 17-27-5 WA

API #: 32475381390000

ELEVATION: 2681

DFS: 4.8

24 HR FTG:

RIG SUPERV: CHRIS BLODGETT / JOSH GILMORE

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 43

HRS DRLG:

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/14/2021	10/15/2021	None	OVERHEAD HAZARDS, 100% TIE OFF
83 MILE RIG MOVE 138 HOUR (6.75 DAYS) RIG MOVE SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00 14.5 HR WALK (.6 DAYS) SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021 TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021 RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21 PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21 RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021 RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021 PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021 00:00 – 00:30: FINISH NIPPLING UP BOP'S AND CENTERING STACK 00:30 – 02:00: TEST BOP'S. ATTEMPT TO TEST BOP AT WELL HEAD BREAK. UNABLE TO GET TEST PLUG TO SEAL, PULL AND INSPECT TEST PLUG, REPLACE SEALS. RESET TEST PLUG, FILL STACK W/ F/W, TEST BOP BREAK AT 250 PSI LOW AND 10,000 PSI HI FOR 5/5. PULLED TEST PLUG AND RIGGED DOWN TESTER. 02:00 - 02:30: SET & INSTALL CACTUS 11" WEAR BUSHING 02:30 – 03:00: SERVICE RIG, TROUBLESHOOT DRAWWORKS NOT PICKING UP. FLOATED ELEVATORS FROM ELEVATED BLOCK POSITION AND RESET FAULT CODES. 03:00 – 04:30: MAKE UP 9 7/8" VAREL DTIGJMRS MILL TOOTH BIT, 1- 8" BIT SUB (FLOAT INSTALLED), 3- 8" DC, 9- 6 1/2" DC, 1- XO, 12- 5" HWDP, TIH AND TAG UP @ 1,080' TOC 04:30 – 05:00: PULL TRIP NIPPLE & INSTALL ROTATING HEAD. 05:00 – 06:00: DRILL CEMENT F/ 1,080' – T/ 1,175', 650 GPM, 50 RPM, 15K WOB (DV TOOL @ 1,164')			

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$2,344	CUM DRILL COST: \$916,922	CUM MUD COST: \$39,731	CUM WELL COST: \$916,922
BOP				
LAST BOP TEST:	10/8/21	LAST BOP DRILL:	NEXT BOP TEST: 10/29/21	

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
2	9.88	VAREL	MILL TOOTH				N	760	1,180	420	5.5	25	N/A	76.4
1	12.25	ULTERRA	SPL616	52075	9x12	0.994	N	4,747	5,016	269	3.0	55	121	89.7

BIT NO. 2 INNER: 1 OUTER: 1 DULL: WT LOC: A SEAL: 0 GAUGE: 1 OTHER: N RP: TD

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	103			.00165	95	0			0	0
2	WEATHERFORD	EQ-2200	5.000	12.000	103			.00165	95	0			0	0

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-MILL TOOTH	9.88		1	7	Drill Pipe-HWDP			363
2	Sub-BIT SUB	8	3	3.46					
3	Drill Collar-8" DC	8	3	90.69					
4	X-Over-XO			2.88					
5	Drill Collar-6 1/2" DC			275.17					
6	X-Over-XO			3.29					

DESCRIPTION: CMT DRILLOUT BHA

LENGTH: 739.49

ROT. WT.:

BHA WT. AIR:

P.U. WT.:

BHA WT. MUD:

S.O. WT.:

HRS. ON JARS:

TORQUE:

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
4,020	3.91	185.32	3,991		-404.9	155.3	-39.5	0.6
4,112	3.16	200.79	4,083		-410.4	154.1	-36.9	1.3
4,205	2.99	201.14	4,176		-415.0	152.4	-33.9	0.2
4,297	2.95	198.86	4,267		-419.5	150.7	-31.1	0.1
4,389	2.77	195.08	4,359		-423.9	149.4	-28.6	0.3
4,483	2.59	191.47	4,453		-428.1	148.4	-26.5	0.3
4,576	1.80	181.89	4,546		-431.7	147.9	-25.1	0.9
4,669	2.15	137.25	4,639		-434.4	149.0	-25.4	1.7

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,472	9,541

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
8/26/2021	11:20	SPUD/CSG/CEMENT	MATT TAYLOR	TRRC	LARRISA	JOB #269199
9/4/2021	13:00	CSG/CEMENT	G.D. THORNTON	TRRC	AUDREY- OP #2	JOB #269199
9/11/2021	10:20	CE CEMENT- NO CIRCU	NICHOLS	TRRC	ERIK HANSON	JOB # 269199



DAILY DRILLING REPORT

RPT DATE: 10/15/2021

RPT NUM.: 14

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/8/2021
MD/TVD: 5556 FT/5525 FT
PRESENT OPERATIONS: DRILLING CEMENT AND SHOE @ 5,006'
ACTIVITY PLANNED: DRILL OUT SHOE, DRILL 9 7/8" INTERMEDIATE

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS: 5.8
24 HR FTG: 540

RIG SUPERV: CHRIS BLODGETT / JOSH GILMORE
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 44
HRS DRLG: 8.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/14/2021	10/15/2021	None	OVERHEAD HAZARDS, 100% TIE OFF

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021
83 MILE RIG MOVE
138 HOUR (6.75 DAYS) RIG MOVE
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00
14.5 HR WALK (.6 DAYS)
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

00:00 – 03:00: DRILL 9 7/8" ROTATE & DRILL 9 7/8" INTERMEDIATE HOLE F/ 5,016' - T/ 5,556' (540' @ 180 FPH) WOB: 40-45K, GPM: 850, PPSI: 3100, DIFF:400-500, RPM: 35-40, TORQUE: 21,000 - 23,000 FT/LBS CIRCULATING
RESERVE PIT W/ 9.0# MW IN/OUT. DRILLING ON VENT LINE W/ 10-15' FLARE STARTING AT 5,500'. 100% RETURNS

03:00 – 06:00: MADE CONNECTION AT 5,502'. HAD FLOW DURING CONNECTION. SHUT IN WELL WITH 0 ANNULAR PRESSURE. OPEN WELL TO TRIP TANK WITH NO FLOW. WENT CLOSED LOOP TO MONITOR BARREL IN/OUT
AND PUT WELL ON SEPARATOR, DRILL TO 5,556' W/ 10-15' FLARE. MUD IS BURPING OVER POSSUM BELLIES. SHUT WELL IN WITH 330 PSI ANNULAR PRESSURE. STRIPPED UP AND CHANGED OUT LEAKING ROTATING HEAD.
CIRCULATE 40BBL GAS OUT OF HOLE KEEPING BARREL IN/OUT. FILL BOTH SIDES OF MUD TANKS AND CLOSE LOOP MUD SYSTEM. DRAIN MUD AND CONDENSATE FROM FLARE LINE WHILE CIRCULATING @ 425 GPM
THROUGH CHOKES MAINTAINING BBL IN/OUT. SHUT WELL IN AGAIN AND HAD 400 PSI ANNULAR PRESSURE. CURRENTLY CIRCULATING @ 300 GPM THROUGH CHOKES WITH 321 PSI ON ANNULUS, RAISING MW TO 9.5 PPG

LAST B.O.P TEST: 10/8/2021 (DUE AGAIN BY 10/29/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME .5 HRS (3.5 HRS TOTAL)

NPT: 22.5 HRS (22.5 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$54,939	CUM DRILL COST: \$983,079	CUM MUD COST: \$45,098	CUM WELL COST: \$983,079
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BOP

LAST BOP TEST:	10/8/21	LAST BOP DRILL:	NEXT BOP TEST:	10/29/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	9.0	27.0	99.0	11.5	1	1	1	2	1	1	65,000	1.30	1.50	8,320		

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
3	9.88	NOV	TKC66	A282920	6x15	1.035	N	5,016	5,016			5	0	
2	9.88	VAREL	MILL TOOTH				N	760	1,180	420	5.5	25	N/A	76.4

BIT NO. 2	INNER: 1	OUTER: 1	DULL: WT	LOC: A	SEAL: 0	GAUGE: 1	OTHER: N	RP: TD
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PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	103	1050	250	.00165	95	0			0	0
2	WEATHERFORD	EQ-2200	5.000	12.000	103	1050	250	.00165	95	0			0	0

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-9 7/8 PDC Bit, Reed Hycalog TKC66	9.875	1.5	1	7	Sub-8 EVO Gap Sub	8	3.25	3.42
2	Motor-8" PDM ERT 9/10 3.9 @ 1.83deg F	8	3.5	33.02	8	Monel Collar-8" NMDC	8.062	3.75	30.93
3	Monel Collar-8" NMPC	8.312	3.5	15.26	9	Monel Collar-8" NMDC	8.062	3.75	30.87
4	Sub-8 EVO X-O Sub	8	3.25	3.14	10	Sub-8" XO Sub NC56 Box X 6 5/8 Reg pin	8	2.875	3.2
5	Sub-8 EVO Landing Sub	8	3.25	3.65	11	Drill Collar-3) 8" DC	8	2.875	90.69
6	Sub-8 EVO Centralizer Sub	8	3.25	8.5	12	X-Over-8" XO Sub	8	2.25	2.88

DESCRIPTION: BHA #3

LENGTH: 868.02

ROT. WT.: 190,000

BHA WT. AIR:

P.U. WT.: 225,000

BHA WT. MUD:

S.O. WT.: 175,000

HRS. ON JARS:

TORQUE: 13,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
4,020	3.91	185.32	3,991	-404.9	155.3	-39.5	0.6	
4,112	3.16	200.79	4,083	-410.4	154.1	-36.9	1.3	
4,205	2.99	201.14	4,176	-415.0	152.4	-33.9	0.2	
4,297	2.95	198.86	4,267	-419.5	150.7	-31.1	0.1	
4,389	2.77	195.08	4,359	-423.9	149.4	-28.6	0.3	
4,483	2.59	191.47	4,453	-428.1	148.4	-26.5	0.3	
4,576	1.80	181.89	4,546	-431.7	147.9	-25.1	0.9	
4,669	2.15	137.25	4,639	-434.4	149.0	-25.4	1.7	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,286	7,255

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
8/26/2021	11:20	SPUD/CSG/CEMENT	MATT TAYLOR	TRRC	LARRISA	JOB #269199
9/4/2021	13:00	CSG/CEMENT	G.D. THORNTON	TRRC	AUDREY- OP #2	JOB #269199
9/11/2021	10:20	CE CEMENT- NO CIRCU	NICHOLS	TRRC	ERIK HANSON	JOB # 269199

TIME BREAKDOWN						
FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	00:30	0.5	SURFACE CASING	NIPPLE UP B.O.P.		FINISH NIPPLING UP BOP'S AND CENTERING STACK
00:30	02:00	1.5	SURFACE CASING	TEST B.O.P.		TEST BOP'S. ATTEMPT TO TEST BOP AT WELL HEAD BREAK. UNABLE TO GET TEST PLUG TO SEAL, PULL AND INSPECT TEST PLUG, REPLACE SEALS. RESET TEST PLUG, FILL STACK W/ F/W, TEST BOP BREAK AT 250 PSI LOW AND 10,000 PSI HI FOR 5/5. PULLED TEST PLUG AND RIGGED DOWN TESTER.
02:00	02:30	0.5	SURFACE CASING	OTHER		INSTALL CACTUS 11" WEAR BUSHING
02:30	03:00	0.5	SURFACE CASING	RIG SERVICE		SERVICE RIG, TROUBLESHOOT DRAWWORKS NOT PICKING UP. FLOATED ELEVATORS FROM ELEVATED BLOCK POSITION AND RESET FAULT CODES.
03:00	04:30	1.5	SURFACE CASING	TRIPS	CEMENT / CASING	MAKE UP 9 7/8" VAREL DTIGJMRS MILL TOOTH BIT, 1- 8" BIT SUB (FLOAT INSTALLED), 3- 8" DC, 9- 6 1/2" DC, 1- XO, 12- 5" HWDP, TIH AND TAG UP @ 1,080' TOC
04:30	05:00	0.5	SURFACE CASING	OTHER	CEMENT / CASING	REMOVE TRIP NIPPLE & INSTALL ROTATING HEAD.
05:00	06:00	1.0	SURFACE CASING	DRILLING	CHANGE IN SCOPE	DRILL CEMENT INSIDE OF 10 3/4" CASING F/ 1,080' -T/ 1,175' 15' BELOW DV TOOL, WOB: 20-35K, GPM: 650, PPSI: 1195, RPM'S: 50, TORQUE: 4600 FT/LBS, CIRCULATING RESERVE.
06:00	06:30	0.5	SURFACE CASING	TEST B.O.P.	CEMENT / CASING	PRESSURE UP & TEST DV TOOL CIRC. PORTS, S.I.W AGAINST ANNULAR, PRESSURE UP TO 1000 PSI HELD FOR 30 MIN'S (GOOD TEST) **NOTICED WHILE ATTEMPTING TO PRESSURE UP TO TEST DV TOOL PRESSURE BLEED OFF RAPIDLY, REPRESSURED UP AND CLOSED 4" STAND PIPE VALVE, PRESSURE ON ANN GUAGE STABILIZED AND DRILL PIPE SIDE REDUCED TO ZERO CONTINUE HOLDING PRESSURE AND TROUBLESHOOTING PRESSURE LOSS AT SURFACE EQUIPMENT.
06:30	07:00	0.5	SURFACE CASING	REPAIR RIG	RIG REPAIR	WHILE TROUBLESHOOTING PRESSURE LOSS @ SURFACE EQUIPMENT FOUND THAT 2" VALVE ON #2 PUMP WAS WASHED, CHANGE OUT VALVE & REPAIR.
07:00	13:30	6.5	SURFACE CASING	DRILLING	CEMENT / CASING	DRILL CEMENT INSIDE OF 10 3/4" CASING F/ 1,175' -T/ 3,518' (2,343 - @ 360 FPH) , WOB: 35-45K, GPM: 800-900, PPSI: 1,675-2250, RPM'S: 105, TORQUE: 4600 FT/LBS, CIRCULATING RESERVE.
13:30	14:00	0.5	SURFACE CASING	RIG SERVICE	CEMENT / CASING	RIG SERVICE / SERVICE TOP DRIVE.
14:00	16:00	2.0	SURFACE CASING		CEMENT / CASING	DRILL CEMENT INSIDE OF 10 3/4" CASING F/ 3,518' -T/ 4,950' (1,432- @ 716 FPH) , WOB: 35-45K, GPM: 800-900, PPSI: 1,675-2250, RPM'S: 105, TORQUE: 4600 FT/LBS, CIRCULATING RESERVE.
16:00	16:30	0.5	SURFACE CASING	TEST B.O.P.	CEMENT / CASING	PRESSURE UP & 10 3/4" CASING S.I.W AGAINST ANNULAR, PRESSURE UP TO 1500 PSI HELD FOR 30 MIN'S (GOOD TEST)
16:30	17:00	0.5	SURFACE CASING	DRILLING	CEMENT / CASING	DRILL CEMENT INSIDE OF 10 3/4" CASING, DRILL FLOAT COLLAR, SHOE TRACK & SHOE F/ 4,950' -T/ 5,001' , WOB: 35-45K, GPM: 500, PPSI: 1,675, RPM'S: 50, TORQUE: 4600 FT/LBS, CIRCULATING RESERVE. **FLOAT COLLAR @ 4,966'
17:00	19:00	2.0	SURFACE CASING	TRIPS	CEMENT / CASING	TRIP OUT OF HOLE FOR 9 7/8" INTERMEDIATE BHA F/ 5,001' - T/ 833' MONITORING DISP T/F TRIP TANK. TOTAL FOOTAGE PULLED: 4,168', AVG PULLED : 2,084 FPH **SAFETY MEETING & JSA FOR TRIPPING OUT OF HOLE W/ UNIT PERSONAL OVER PINCH POINTS AND ELIMINATING POTENTIAL EXPOSURES.
19:00	19:30	0.5	SURFACE CASING	OTHER	CEMENT / CASING	PULL ROTATING HEAD.
19:30	20:00	0.5	SURFACE CASING	TRIPS	CEMENT / CASING	TRIP OUT OF HOLE WITH D.C'S & HWDP F/ 833' - T/ 3' BIT SUB. LAY DOWN BIT SUB & MILL TOOTH BIT.



DAILY DRILLING REPORT

RPT DATE: 10/16/2021

RPT NUM.: 15

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H	JOB: DRILLING	RIG SUPERV: CHRIS BLODGETT / JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST A 17-27-5 WA	RIG PHONE: 432-355-3112
AFE #: 21DC005	API #: 32475381390000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/8/2021	DFS: 6.8	DOL: 45
MD/TVD: 7998 FT/7966 FT	24 HR FTG: 2442	HRS DRLG: 18.5
PRESENT OPERATIONS: DRILLING 9 7/8" INTERMEDIATE @ 7,998'		
ACTIVITY PLANNED: DRILL 9 7/8" INTERMEDIATE CHERT SECTION		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/16/2021	10/17/2021	None	GOOD WELL CONTROL PRACTICES, HOISTING OPERATIONS
83 MILE RIG MOVE 138 HOUR (6.75 DAYS) RIG MOVE SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00 14.5 HR WALK (.6 DAYS) SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021 TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021 RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21 PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21 RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021 RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021 PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021 00:00 – 02:00 ROTATE & DRILL 9 7/8" INTERMEDIATE HOLE F/ 7,998' - T/ 8,161' (163' @ 81.5 FPH) WOB: 45K, GPM: 700, PPSI: 2750-2850, DIFF: 300-500, RPM: 20, TORQUE: 17,000 - 21,500 FT/LBS, TAKING RETURNS THROUGH AUTO CHOKES. ONE CHOKE CLOSED, DRILLING CHOKE SET @ 60% OPEN WITH 8-12" CONTINUOUS FLARE, 9.6+ PPG IN/OUT. 02:00 – 02:30 SERVICE RIG, CHANGE OUT #1 SWAB ON #1 MUDPUMP CIRCULATE 30' OFF BOTTOM @ 320 GPM, MAINTAINING BARREL IN/OUT ON CHOKES HOLDING 150 PSI ON WELL 02:30 – 03:00 CHANGE OUT SWAB AND LINER ON #1 MODULE, #2 MUD PUMP. CIRCULATE 30' OFF BOTTOM @ 400 GPM, MAINTAINING BARREL IN/OUT ON CHOKES W/ 150 PSI ON ANNULUS 03:00 – 04:30 ROTATE & DRILL 9 7/8" INTERMEDIATE HOLE F/ 8,161' - T/ 8,280' (119' @ 79.3 FPH) WOB: 45K, GPM: 700, PPSI: 2750-2850, DIFF: 300-500, RPM: 20, TORQUE: 17,000 - 21,500 FT/LBS, PARTIALLY TAKING RETURNS DOWN FLOW LINE WITH VENT LINE OPEN AND ADJ. ORBIT VALVE @ 35% OPEN, WITH 75 PSI BACK PRESSURE, WITH BOTH AUTO CHOKES SET @ 35 PSI AUTO BACK PRESSURE. WITH 10' FLARE, 9.7 PPG IN/OUT 04:30 - 05:30 CHANGE OUT #2 SWAB AND LINER ON #2 MUD PUMP WHILE CIRCULATING OFF BOTTOM AT 350 GPM, MAINTAINING BARREL IN/OUT, HOLDING 50 PSI BACK PRESSURE ON WELL 05:30 – 06:00 ROTATE & DRILL 9 7/8" INTERMEDIATE HOLE F/ 8,280' - T/ 8,305' (25' @ 50 FPH) WOB: 45K, GPM: 700, PPSI: 2750-2850, DIFF: 300-500, RPM: 20, TORQUE: 17,000 - 21,500 FT/LBS, PARTIALLY TAKING RETURNS DOWN FLOW LINE WITH VENT LINE OPEN AND ADJ. ORBIT VALVE @ 35% OPEN, WITH 75 PSI BACK PRESSURE, WITH BOTH AUTO CHOKES SET @ 35 PSI AUTO BACK PRESSURE. WITH 10' FLARE, 9.7 PPG IN/OUT LAST B.O.P TEST: 10/8/2021 (DUE AGAIN BY 10/29/2021) NO ACCIDENTS, INCIDENTS, OR SPILLS RIG DOWNTIME .5 HRS (3.5 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$28,351	CUM DRILL COST: \$1,011,430	CUM MUD COST: \$48,938	CUM WELL COST: \$1,011,430
BOP				
LAST BOP TEST:	10/8/21	LAST BOP DRILL:	NEXT BOP TEST:	10/29/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	9.8	27.0	99.0	10.8	1	1	1	2	1	1	81,000		0.50	0.56	8,680		5.60	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
3	9.88	NOV	TKC66	A282920	6x15	1.035	N	5,016	7,998	2,982	18.0	45	102	165.7
2	9.88	VAREL	MILL TOOTH				N	760	1,180	420	5.5	25	N/A	76.4

BIT NO. 2	INNER: 1	OUTER: 1	DULL: WT	LOC: A	SEAL: 0	GAUGE: 1	OTHER: N	RP: TD
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PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	103	2850	350	.00165	95	0			0	0
2	WEATHERFORD	EQ-2200	5.000	12.000	103	2850	350	.00165	95	0			0	0

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-9 7/8 PDC Bit, Reed Hycalog TKC66	9.875	1.5	1	7	Sub-8 EVO Gap Sub	8	3.25	3.42
2	Motor-8" PDM ERT 9/10 3.9 @ 1.83deg F	8	3.5	33.02	8	Monel Collar-8" NMDC	8.062	3.75	30.93
3	Monel Collar-8" NMPC	8.312	3.5	15.26	9	Monel Collar-8" NMDC	8.062	3.75	30.87
4	Sub-8 EVO X-O Sub	8	3.25	3.14	10	Sub-8" XO Sub NC56 Box X 6 5/8 Reg pin	8	2.875	3.2
5	Sub-8 EVO Landing Sub	8	3.25	3.65	11	Drill Collar-3) 8" DC	8	2.875	90.69
6	Sub-8 EVO Centralizer Sub	8	3.25	8.5	12	X-Over-8" XO Sub	8	2.25	2.88

DESCRIPTION: BHA #3	BHA WT. AIR:	BHA WT. MUD:	HRS. ON JARS:
LENGTH: 868.02	P.U. WT.: 285,000	S.O. WT.: 215,000	TORQUE: 8,000
ROT. WT.: 237,000			

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
7,383	0.48	270.19	7,352		-490.7	100.9	36.2	0.2
7,475	0.17	339.73	7,444		-490.6	100.5	36.6	0.5
7,568	0.31	334.36	7,537		-490.3	100.3	36.6	0.2
7,661	0.48	6.20	7,630		-489.6	100.2	36.5	0.3
7,753	0.53	17.92	7,722		-488.9	100.4	36.2	0.1
7,846	0.77	54.89	7,815		-488.1	101.0	35.3	0.5
7,938	0.79	41.39	7,907		-487.3	102.0	34.2	0.2
8,031	0.87	41.52	8,000		-486.2	102.9	33.1	0.1

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,980	5,275

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
8/26/2021	11:20	SPUD/CSG/CEMENT	MATT TAYLOR	TRRC	LARRISA	JOB #269199
9/4/2021	13:00	CSG/CEMENT	G.D. THORNTON	TRRC	AUDREY- OP #2	JOB #269199
9/11/2021	10:20	CE CEMENT- NO CIRCU	NICHOLS	TRRC	ERIK HANSON	JOB # 269199

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	02:00	2.0	INTERMEDIATE DRILLING	DRILLING		ROTATE & DRILL 9 7/8" INTERMEDIATE HOLE F/ 5,016' - T/ 5,502' (540' @ 180 FPH) WOB: 40-45K, GPM: 850, PPSI: 3100, DIFF:400-500, RPM: 35-40, TORQUE: 21,000 - 23,000 FT/LBS CIRCULATING RESERVE PIT W/ 9.0# MW IN/OUT. DRILLING OVERBOARD CIRCULATING RESERVE PIT WITH VENT LINE OPEN. **WHILE MAKING MADE CONNECTION AT 5,502'. MAINTAINED 46% FLOW DURING CONNECTION.
02:00	02:30	0.5	INTERMEDIATE DRILLING	DRILLING		FLOW CHECK WELL , OPEN WELL TO TRIP TANK WITH NO FLOW. CLOSE BYPASS VALVE & CLOSE LOOP SYSTEM TO MONITOR BARREL IN/OUT, PROCEEDED TO DRILL AHEAD F/ 5,502' - T/ 5,556' (54' @ 180 FPH) WOB: 40-45K, GPM: 850, PPSI: 3100, DIFF:400-500, RPM: 35-40, TORQUE: 21,000 - 23,000 FT/LBS DRILLING CLOSED LOOP WITH VENT LINE OPEN W/ 10-15' FLARE STARTING AT 5,500'. GAINED 12 BBLs, PUT WELL ON SEPARATOR, WITH EXCESSIVE FLOW DEVIATION AND SURGING FLUID TO SHAKERS,
02:30	04:30	2.0	INTERMEDIATE DRILLING	COND MUD & CIRC	WELL CONTROL	ATTEMPTED TO SHUT IN WELL AGAINST ORBIT VALVE AND ROTATING HEAD WITH # 2 CHOKES 100% OPEN ROTATING HEAD LEAKING BY, S.I.W AGAINST ANNULAR & POWER CHOKES WITH ICP: 175 PSI BUILT UP TO 330 PSI, LOWERED ANNULAR PRESSURE TO 800 PSI & STRIPPED UP AND CHANGED OUT LEAKING ROTATING HEAD, MONITORING CASING PRESSURE. CIRCULATE B/U @ 350 GPM ATTEMPTING TO STAGE UP PUMPS WITHOUT SUCCESS OVERFLOWING SEPARATOR, CONTINUE CIRCULATING B/U & GAS FROM WELL @ 350 GPM, W/ 1050 PSI, MONITORING & ADJ. TO MAINTAIN BBL IN/OUT. MW IN 9.1PPG, OUT: 8.8 PPG, CIRCULATING THROUGH x 1 CHOKE @ 35-60% OPEN WITH 180-380 PSI CASING PRESSURE. MAINTAINING BBL IN/OUT, NO FLARE DUE TO FLARE LINE FILLED WITH BRINE. ADDING MINIMAL DEFOAMER TO MUD SYSTEM FOR GAS FOAMED RETURNS, AFTER B/U AND PRESSURE REDUCTION -40 BBLs OF LOSS. S.I.W WITH 188 PSI. S.I.C.P
04:30	05:30	1.0	INTERMEDIATE DRILLING	OTHER	WELL CONTROL	WITH WELL SHUT IN AND MONITORING S.I.C.P, BREAK & DRAIN FLARE LINE OF BRINE, FILL SETTLING SIDE OF MUD TANKS & STARTED INCREASING MUD WEIGHT TO 9.5 PPG, INSTALL MUD LOGGER GAS SENSOR IN POSSUM BELLY FOR ASSISTED MONITORING, S.I.C.P INCREASED TO 430 PSI.
05:30	07:30	2.0	INTERMEDIATE DRILLING	COND MUD & CIRC	WELL CONTROL	ESTABLISH CIRCULATION @ 375 GPM W/ 650 PSI, CONTINUE CIRCULATING WHILE RAISING MUD WEIGHT F/ 9.2 PPG TO 9.5 PPG, CIRCULATING THROUGH AUTO CHOKE WITH 200-325 PSI BACK PRESSURE TO MAINTAIN BBL IN / BBL OUT. ONCE MUD WEIGHT REACHED 9.5 PPG IN / WITH 9.3 OUT ABLE TO STAGE UP AND INCREASE FLOW RATE UP TO 550 GPM W/ 1500 PSI WITH 15-18' FLARE. TOTAL GAS FLOW RATE: 592 MCFD TOTAL GAS FLARED: 49,313 SCF



DAILY DRILLING REPORT

RPT DATE: 10/17/2021

RPT NUM.: 16

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY / JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST A 17-27-5 WA	RIG PHONE: 432-355-3112
AFE #: 21DC005	API #: 32475381390000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/8/2021	DFS: 7.8	DOL: 46
MD/TVD: 9177 FT/9145 FT	24 HR FTG: 1179	HRS DRLG: 21
PRESENT OPERATIONS: CIRCULATING B/U @ 9,177' TO TOOH FOR ROP		
ACTIVITY PLANNED: TOOH, CHANGE OUT BIT AND MWD, TIH AND DRILL 9 7/8" INTERMEDIATE SECTION		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/17/2021	10/18/2021	None	H2S AWARENESS, HAND SIGNALS

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021
83 MILE RIG MOVE
138 HOUR (6.75 DAYS) RIG MOVE
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00
14.5 HR WALK (6 DAYS)
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

00:00 – 00:30: SIW WITH 175 PSI . ATTEMPTED TO STRIP OUT OF HOLE FOR LOW R.O.P F/ 9,177' - T/ 7,735' FORCE FILLING @ CALCULATED DISPLACEMENT WITH 15PPG KILL MUD, MONITORING WELL AT TRIP TANK
**GAINING AT TRIP TANK, TROUBLESHOOT VALVING.

00:30 – 01:00: FOUND THAT ORBIT VALVE WAS LEAKING, FUNCTIONED ORBIT VALVE WITHOUT SUCCESS. SHUT ANNULAR WITH INITIAL S.I.C.P OF 275 PSI AND BULLHEAD 15PPG KMW DOWN BACKSIDE, PRESSURE BUILT UP TO 420 PSI BEFORE BREAKING OVER CONTINUE PUMPING 100 BBL OF 15 PPG KMW TO ACHIEVE ZERO PRESSURE. OPEN WELL & FLOW CHECK WELL (WELL STATIC) FILL BACKSIDE WITH 15 BBLs OF 9.8 PPG SYSTEM BRINE F/ TRIP TANK. NO RETURNS.

01:00 – 06:00: CONTINUE TRIPPING OUT OF THE HOLE @ CALC. DISP TO 10 3/4" CASING SHOE 4,990', FLOW CHECK WELL @ 4,990' (WELL STATIC.) FILL BACKSIDE WITH ADDITIONAL 20 BBLs OF 9.8 PPG SYSTEM BRINE, PULL ROTATING HEAD AND CONTINUE TRIPPING OUT OF HOLE PUMPING CALC. DISP TO DIRECTIONAL BHA @ 133'. PULL MWD AND LAY DOWN EVO CARRIER SUB.

LAST B.O.P TEST: 10/8/2021 (DUE AGAIN BY 10/29/2021)
NO ACCIDENTS, INCIDENTS, OR SPILLS
RIG DOWNTIME 1.5 HRS (5 HRS TOTAL)
NPT: 0 HRS (22.5 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$40,243	CUM DRILL COST: \$1,061,789	CUM MUD COST: \$51,819	CUM WELL COST: \$1,061,789
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BOP

LAST BOP TEST:	10/8/21	LAST BOP DRILL:	NEXT BOP TEST:	10/29/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	9.8	27.0	99.0	11.0	1	1	1	2	1	2	87,000		1.00	1.20	10,600		4.80	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
3	9.88	NOV	TKC66	A282920	6x15	1.035	N	5,016	7,998	2,982	18.0	45	102	165.7
2	9.88	VAREL	MILL TOOTH				N	760	1,180	420	5.5	25	N/A	76.4

BIT NO. 2 INNER: 1 OUTER: 1 DULL: WT LOC: A SEAL: 0 GAUGE: 1 OTHER: N RP: TD

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	103	2800	350	.00165	95	0			0	0
2	WEATHERFORD	EQ-2200	5.000	12.000	103	2800	350	.00165	95	0			0	0

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-9 7/8 PDC Bit, Reed Hycalog TKC66	9.875	1.5	1	7	Sub-8 EVO Gap Sub	8	3.25	3.42
2	Motor-8" PDM ERT 9/10 3.9 @ 1.83deg F	8	3.5	33.02	8	Monel Collar-8" NMDC	8.062	3.75	30.93
3	Monel Collar-8" NMPC	8.312	3.5	15.26	9	Monel Collar-8" NMDC	8.062	3.75	30.87
4	Sub-8 EVO X-O Sub	8	3.25	3.14	10	Sub-8" XO Sub NC56 Box X 6 5/8 Reg pin	8	2.875	3.2
5	Sub-8 EVO Landing Sub	8	3.25	3.65	11	Drill Collar-3) 8" DC	8	2.875	90.69
6	Sub-8 EVO Centralizer Sub	8	3.25	8.5	12	X-Over-8" XO Sub	8	2.25	2.88

DESCRIPTION: BHA #3
LENGTH: 868.02
ROT. WT.: 265,000
BHA WT. AIR: P.U. WT.: 295,000
BHA WT. MUD: S.O. WT.: 243,000
HRS. ON JARS: TORQUE: 8,500

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
8,402	0.94	25.66	8,371	-480.5	105.9	28.6	0.2	
8,495	0.79	37.00	8,464	-479.3	106.6	27.6	0.2	
8,587	0.66	46.80	8,556	-478.4	107.3	26.6	0.2	
8,680	0.44	34.85	8,649	-477.8	107.9	25.9	0.3	
8,772	0.21	227.04	8,741	-477.6	108.0	25.8	0.7	
8,865	0.48	185.14	8,834	-478.1	107.9	26.1	0.4	
8,957	1.24	205.95	8,926	-479.4	107.4	26.9	0.9	
9,050	1.53	201.76	9,019	-481.4	106.5	28.3	0.3	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	12,990	2,693	15,572

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
8/26/2021	11:20	SPUD/CSG/CEMENT	MATT TAYLOR	TRRC	LARRISA	JOB #269199
9/4/2021	13:00	CSG/CEMENT	G.D. THORNTON	TRRC	AUDREY- OP #2	JOB #269199
9/11/2021	10:20	CE CEMENT- NO CIRCU	NICHOLS	TRRC	ERIK HANSON	JOB # 269199

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	02:00	2.0				ROTATE 9 7/8" INTERMEDIATE HOLE F/ 7,998' - T/ 8,161' (163' @ 81.5 FPH) WOB: 45K, GPM: 700, PPSI: 2750-2850, DIFF: 300-500, RPM: 20, TORQUE: 17,000 - 21,500 FT/LBS, TAKING RETURNS THROUGH AUTO CHOKES. ONE CHOKE CLOSED, DRILLING CHOKE SET @ 60% OPEN WITH 8-12' CONTINUOUS FLARE, 9.6+ PPG IN/OUT. **DRILLING WITH REDUCED & RESTRICTED PARAMETERS FOR BRUSHY CANYON TOTAL GAS FLOW RATE: 209 MCFD TOTAL GAS FLARED: 17,448 SCF
			INTERMEDIATE DRILLING	DRILLING		
02:00	02:30	0.5	INTERMEDIATE DRILLING	RIG SERVICE		SERVICE RIG, CHANGE OUT #1 SWAB ON #1 MUDPUMP CIRCULATE 30' OFF BOTTOM @ 320 GPM, MAINTAINING BARREL IN/OUT ON CHOKES W/ 150 PSI ON ANNULUS
02:30	03:00	0.5	INTERMEDIATE DRILLING	OTHER	RIG REPAIR	CHANGE OUT SWAB AND LINER ON #1 MODULE, #2 MUD PUMP. CIRCULATE 30' OFF BOTTOM W/ NO ROTATION @ 400 GPM, MAINTAINING BARREL IN/OUT ON CHOKES W/ 175 PSI ON ANNULUS
03:00	08:30	5.5				ROTATE 9 7/8" INTERMEDIATE HOLE F/ 8,161' - T/ 8,512' (351' @ 64 FPH) WOB: 45K, GPM: 700, PPSI: 2750-2850, DIFF: 300-500, RPM: 15-20, TORQUE: 17,000 - 23,500 FT/LBS, TAKING RETURNS THROUGH AUTO CHOKES. ONE CHOKE CLOSED, DRILLING CHOKE SET @ 75-125 PSI BACKPRESSURE WITH 8-12' CONTINUOUS FLARE, 9.7 PPG IN/OUT. **DRILLING WITH REDUCED & RESTRICTED PARAMETERS FOR BRUSHY CANYON **OIL SHOW VISIBLE IN PITS FILMING OVER SHAKERS AND HEAVY OIL SMELL WITH BRINE IN PITS. TOTAL GAS FLOW RATE: 154 MCFD TOTAL GAS FLARED: 35,217 SCF
			INTERMEDIATE DRILLING	DRILLING		
08:30	09:00	0.5	INTERMEDIATE DRILLING	OTHER	RIG REPAIR	CHANGE OUT SWAB ON #1 MODULE, CIRCULATE WITH #2 MUD PUMP 30' OFF BOTTOM W/ NO ROTATION @ 400 GPM, MAINTAINING BARREL IN/OUT ON CHOKES SET @ 95 PSI BACK PRESSURE.
09:00	15:30	6.5				ROTATE 9 7/8" INTERMEDIATE HOLE F/ 8,512' - T/ 8,925' (413' @ 59 FPH) WOB: 40-45K, GPM: 700, PPSI: 2750-2850, DIFF: 300-500, RPM: 15-20, TORQUE: 17,000 - 23,500 FT/LBS, TAKING RETURNS THROUGH AUTO CHOKES. ONE CHOKE CLOSED, DRILLING CHOKE SET @ 75-125 PSI BACKPRESSURE WITH 8-12' CONTINUOUS FLARE, 9.7 PPG IN/OUT. **DRILLING WITH REDUCED & RESTRICTED PARAMETERS FOR BRUSHY CANYON **OIL SHOW VISIBLE IN PITS FILMING OVER SHAKERS AND HEAVY OIL SMELL WITH BRINE IN PITS. TOTAL GAS FLOW RATE: 209 MCFD TOTAL GAS FLARED: 17,448 SCF
			INTERMEDIATE DRILLING	DRILLING		
15:30	16:00	0.5	INTERMEDIATE DRILLING	RIG SERVICE		RIG SERVICE / SERVICE TOP DRIVE.



DAILY DRILLING REPORT

RPT DATE: 10/18/2021

RPT NUM.: 17

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY / JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST A 17-27-5 WA	RIG PHONE: 432-355-3112
AFE #: 21DC005	API #: 32475381390000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/8/2021	DFS: 8.8	DOL: 47
MD/TVD: 9574 FT/9542 FT	24 HR FTG: 397	HRS DRLG: 5.5
PRESENT OPERATIONS: DRILLING 9 7/8" INTERMEDIATE AT 9,574'		
ACTIVITY PLANNED: DRILL TO KOP/ CASING POINT AT +/- 10,915', TOOH TO RUN 7 5/8" CASING		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/17/2021	10/18/2021	None	H2S AWARENESS, HAND SIGNALS
BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021			
83 MILE RIG MOVE			
138 HOUR (6.75 DAYS) RIG MOVE			
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00			
14.5 HR WALK (6 DAYS)			
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021			
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021			
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21			
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21			
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021			
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021			
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021			
00:00 – 01:00: ROTATE 9 7/8" INTERMEDIATE HOLE F/ 9,574' - T/ 9,667' (93' @ 93 FPH) WOB: 30-35K, GPM: 850, PPSI: 4000-4100, DIFF: 400-500, RPM: 65, TORQUE: 21,000 - 24,500 FT/LBS, TAKING RETURNS ON FLOW LINE HOLDING 250 PSI BACK PRESSURE W/ ADJ. ORBIT VALVE WITH VENT LINE OPEN WITH NO FLARE, 9.8 PPG IN/OUT. LITHOLOGY: 9,520 = 90% SH, 10% LS, BACKGROUND GAS: 80-330 U, CONNECTION GAS: 2400-2500 U			
01:00 – 01:30: STRIP THROUGH ANNULAR, CHANGE OUT LEAKING ROTATING HEAD			
01:30 – 02:00: SERVICE RIG, TROUBLESHOOT LEAKING FLEXLINE BETWEEN ORBIT VALVE AND FLOWLINE (SECOND ONE LEAKING). SLOW GPM TO 800, CLOSE ORBIT VALVE AND CIRCULATE THROUGH CHOKES.			
02:00 – 06:00 ROTATE AND SLIDE 9 7/8" INTERMEDIATE HOLE F/ 9,667' - T/ 9,854' (187' @ 46.8 FPH) WOB: 30-35K, GPM: 800, PPSI: 4000-4100, DIFF: 400-500, RPM: 65, TORQUE: 21,000 - 24,500 FT/LBS, TAKING RETURNS THROUGH CHOKES W/ 200-250 PSI BACK PRESSURE WITH NO FLARE, 9.8 PPG IN/OUT. LITHOLOGY: 9,700 = 70% SH, 30% LS, BACKGROUND GAS: 80-330 U, CONNECTION GAS: 400-500 U			
LAST B.O.P TEST: 10/8/2021 (DUE AGAIN BY 10/29/2021)			
NO ACCIDENTS, INCIDENTS, OR SPILLS			
RIG DOWNTIME 1 HRS (6 HRS TOTAL)			
NPT: 3.5 HRS (26 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$56,805	CUM DRILL COST: \$1,118,594	CUM MUD COST: \$64,749	CUM WELL COST: \$1,118,594
BOP				
LAST BOP TEST:	10/8/21	LAST BOP DRILL:	NEXT BOP TEST:	10/29/21

CASING TYPE		OD	WEIGHT	GRADE	MD	TVD
Conductor		16.00			125	125
Surface		10.75	45.5	J55	5,008	4,978

MUD																		
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	9.8	28.0	99.0	9.3	1	1	1	2	1	2	89,000		0.30	0.40	10,720		4.70	

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
4	9.88	NOV	TKC66	A28291	6x15	1.035	N	9,177	9,475	298	5.5	40	153	54.2
3	9.88	NOV	TKC66	A282920	6x15	1.035	N	5,016	7,998	2,982	18.0	45	102	165.7

BIT NO. 3	INNER: 8	OUTER: 4	DULL: RO	LOC: N	SEAL: X	GAUGE: I	OTHER: BT	RP: PR
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PUMPS														
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	103	2850	350	.00165	95	0			0	0
2	WEATHERFORD	EQ-2200	5.000	12.000	103	2850	350	.00165	95	0			0	0

BHA									
#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-9 7/8 PDC Bit, Reed Hycalog TKC66	9.875	1.5	1	7	Sub-8 EVO Gap Sub	8	3.25	3.42
2	Motor-8" PDM ERT 9/10 3.9 @ 1.83deg F	8	3.5	33.02	8	Monel Collar-8" NMDC	8.062	3.75	30.93
3	Monel Collar-8" NMPC	8.312	3.5	15.26	9	Monel Collar-8" NMDC	8.062	3.75	30.87
4	Sub-8 EVO X-O Sub	8	3.25	3.14	10	Sub-8" XO Sub NC56 Box X 6 5/8 Reg pin	8	2.875	3.2
5	Sub-8 EVO Landing Sub	8	3.25	3.76	11	Drill Collar-3) 8" DC	8	2.875	90.69
6	Sub-8 EVO Centralizer Sub	8	3.25	8.5	12	X-Over-8" XO Sub	8	2.25	2.88

DESCRIPTION: BHA #3	BHA WT. AIR:	BHA WT. MUD:	HRS. ON JARS:
LENGTH: 868.13	P.U. WT.: 325,000	S.O. WT.: 230,000	TORQUE: 10,000
ROT. WT.: 256,000			

SURVEY DATA								
MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
8,865	0.48	185.14	8,834		-478.1	107.9	26.1	0.4
8,957	1.24	205.95	8,926		-479.4	107.4	26.9	0.9
9,050	1.53	201.76	9,019		-481.4	106.5	28.3	0.3
9,144	2.40	201.29	9,112		-484.4	105.3	30.2	0.9
9,237	3.26	202.08	9,205		-488.7	103.6	33.0	0.9
9,329	4.18	198.68	9,297		-494.3	101.6	36.5	1.0
9,422	4.37	198.60	9,390		-500.9	99.3	40.4	0.2
9,515	4.61	192.61	9,483		-507.9	97.4	44.2	0.6

CONSUMABLES			
CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,982	13,590

NOTIFICATIONS					
Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact
					Comments

9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
8/26/2021	11:20	SPUD/CSG/CEMENT	MATT TAYLOR	TRRC	LARRISA	JOB #269199
9/4/2021	13:00	CSG/CEMENT	G.D. THORNTON	TRRC	AUDREY- OP #2	JOB #269199
9/11/2021	10:20	CE CEMENT- NO CIRCU	NICHOLS	TRRC	ERIK HANSON	JOB # 269199

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	00:30	0.5	INTERMEDIATE DRILLING	TRIPS		S.I.W WITH 175 PSI . ATTEMPTED TO STRIP OUT OF HOLE FOR LOW R.O.P F/ 9,177' - T/ 7,735' FORCE FILLING @ CALCULATED DISPLACEMENT WITH 15PPG KILL MUD, MONITORING WELL AT TRIP TANK,
00:30	01:00	0.5	INTERMEDIATE DRILLING	COND MUD & CIRC	WELL CONTROL	**GAINING AT TRIP TANK, TROUBLESHOOT VALVING AND ALIGNMENT. AFTER TROUBLE SHOOTING, FOUND THAT ORBIT VALVE WAS LEAKING, FUNCTIONED ORBIT VALVE WITHOUT SUCCESS. SHUT IN WELL AGAINST ANNULAR WITH INITIAL S.I.C.P OF 275 PSI AND BULLHEAD 15PPG KMW DOWN BACKSIDE, PRESSURE BUILT UP TO 420 PSI BEFORE BREAKING OVER AND ESTABLISHING INJECTION @ 20 SPM, CONTINUE PUMPING 123 BBL (1,732') OF 15 PPG KMW TO ACHIEVE ZERO PRESSURE. OPEN WELL & FLOW CHECK WELL (WELL STATIC) FILL BACKSIDE WITH 15 BBLS OF 9.8 PPG SYSTEM BRINE F/ TRIP TANK. NO RETURNS.
01:00	05:30	4.5	INTERMEDIATE DRILLING	TRIPS		CONTINUE TRIPPING OUT OF THE HOLE FOR LOW R.O.P F/ 7,735' - T/ 4,990' @ CALC. DISP TO 10 3/4" CASING SHOE, FLOW CHECK WELL @ 4,990' (WELL STATIC.) FILL BACKSIDE WITH ADDITIONAL 20 BBLS OF 9.8 PPG SYSTEM BRINE, PULL ROTATING HEAD AND CONTINUE TRIPPING OUT OF HOLE F/ 4,990' - T/ 133' BHA PUMPING CALC. DISP. FLOW CHECK WELL AT DIRECTIONAL BHA (WELL STATIC) . PUMP REMAINING 25 BBLS OF 9.8 PPG BRINE IN TRIP TANK INTO WELL BORE. **JSA & SAFETY MEETING OVER TRIPPING OUT OF HOLE W/ TM-120 FOCUSING ON PINCH POINTS AND POTENTIAL HAZARDS.
05:30	06:30	1.0	INTERMEDIATE DRILLING	DIR WORK		LAY DOWN EVO CARRIER SUB, & EVO TOOL, BREAK BIT, LAY DOWN MUD MOTOR. BHA #3 9 7/8" NOV TKC66, 6 X 15'S JETS, TFA 1.035. SN- A281283, 8" MOTOR 9/10, 3.9 STG, ADJ SET AT 1.50" 0.11 REV/GAL MAX TRQ 25,580, MAX DIFF 1,150. BIT TO BEND: 5.21', KICK PAD OD: 8.31", 1- 8"NMPDC, 8" EVO X.O SUB, 8" EVO CENTRALIZER SUB, 8" LANDING GAP SUB, BIT TO SURVEY =61', BIT TO GAMMA = 58. BIT GRADE:8-4-RO-N-X-I-BT-PR **JSA & SAFETY MEETING WITH PREMIER DIRECTIONAL, COMP REP & ALL UNIT DRILLING PERSONAL OVER JOB STEPS OF LAYING DOWN / P/U BHA AND ELIMINATING POTENTIAL EXPOSURES.
06:30	07:30	1.0	INTERMEDIATE DRILLING	DIR WORK		P/U & M/U BHA #4 AS FOLLOWS: 9 7/8" NOV TKC66, 6 X 15'S JETS, TFA 1.035. SN- A28291, 8" NOV PERFORMANCE MOTOR 9/10, 3.9 STG, ADJ SET AT 1.50" 0.11 REV/GAL, FLOW RANGE: 600-900 GPM, MAX TRQ 25,580, MAX DIFF 1,150. BIT TO BEND: 6.12', KICK PAD OD: 8.31", 1- 8"NMPDC, 8" EVO X.O SUB, 8" EVO CENTRALIZER SUB, 8" LANDING GAP SUB, 2-8" NMDC, XO, 3 - 8" DC, XO, 9 - 6.5" DC, XO, 12 - 5" HWDP. BIT TO SURVEY =61', BIT TO GAMMA = 58. TEST MWD @ 450 GPM W/ 350 PSI (GOOD TEST)
07:30	10:00	2.5	INTERMEDIATE DRILLING	TRIPS		TRIP IN HOLE WITH 9 7/8" INTERMEDIATE BHA #4 F/ 133' - T/ 4,990' MONITORING DISP @ TRIP TANK (NO DISP). S.I.W W/ O SICP. **JSA & SAFETY MEETING OVER TRIPPING IN HOLE WITH TM-120 WITH ALL UNIT PERSONAL.
10:00	11:30	1.5	INTERMEDIATE DRILLING	CUT OFF DRILL LINE		INSTALL ROT HEAD AND FILL PIPE, SLIP & CUT 100' OF DRILL LINE, RE CAL. BLOCKS, VERIFY TORQUE ON HEAD. WHILE SLIPPING & CUTTING DRILL LINE MONITOR SHUT IN PRESSURE & CHANGE OUT LEAKING ADJUSTABLE ORBIT VALVE.

11:30	14:30	3.0	INTERMEDIATE DRILLING	OTHER	EQUIPMENT FAILURE (NON RIG)	WELL SHUT IN WITH CHOKES OPEN TO TRIP TANK MONITORING WELL, REPLACE ADJ. ORBIT VALVE BOLT UP AND TORQUE, REPLACE BAD KNIFE VALVE ON FLOW LINE.
14:30	17:30	3.0	INTERMEDIATE DRILLING	TRIPS		TRIP IN HOLE F/ 4,990' - T/ 6,500' MONITORING DISP @ TRIP TANK (NO DISP.) S.I.W WELL AGAINST ROTATING HEAD @ 6,500' & START INDUCING WELL @ 50 SPM, CAUGHT PRESSURE TOP OF FLUID @ 144 BBLS=1215 STKS (1,996') CONTINUE BULL HEADING 9.8 PPG BRINE DOWN BACKSIDE @ 30 SPM, PRESSURE INCREASED AND STABILIZED @ ADDITIONAL 195 BBLS ≈1700 STKS (2,708') CONTINUE PUMPING ADDITIONAL 30 BBLS OVER STABILIZATION. CONTINUE TRIPPING IN HOLE W/ 440 PSI S.I.C.P. **TOTAL BBLS PUMPED TO INDUCE: 369 BBLS=5,125'
17:30	22:00	4.5	INTERMEDIATE DRILLING	DRILLING		ROTATE 9 7/8" INTERMEDIATE HOLE F/ 9,177' - T/ 9,452' (275' @ 61 FPH) WOB: 40-42K, GPM: 700, PPST: 2750-2850, DIFF: 250-400, RPM: 15-20, TORQUE: 17,000 - 21,500 FT/LBS, TAKING RETURNS ON FLOW LINE HOLDING 250 PSI BACK PRESSURE W/ ADJ. ORBIT VALVE WITH VENT LINE OPEN WITH NO FLARE, 9.8 PPG IN/OUT. LITHOLOGY: 9,400 = 90% SH, 10% LS, BACKGROUND GAS:Ø8-70 U, CONNECTION GAS:1164-1177 U **DRILLING WITH REDUCED & RESTRICTED PARAMETERS FOR BRUSHY CANYON TOTAL GAS FLOW RATE: 0 MCFD TOTAL GAS FLARED: 0 SCF
22:00	23:00	1.0	INTERMEDIATE DRILLING	REPAIR RIG	RIG REPAIR	FLEX LINE LEAKING BETWEEN ORBIT VALVE AND FLOW LINE. SPACED OUT, SHUT PIPE RAMS AND CIRCULATED THROUGH x2 CHOKES @ 700 GPM W/ 180 PSI BACK PRESSURE. CHANGE OUT FLEX LINE
23:00	00:00	1.0	INTERMEDIATE DRILLING	DRILLING		ROTATE 9 7/8" INTERMEDIATE HOLE F/ 9,452' - T/ 9,574' (122' @ 122 FPH) WOB: 30-35K, GPM: 850, PPST: 4000-4100, DIFF: 400-500, RPM: 65, TORQUE: 21,000 - 24,500 FT/LBS, TAKING RETURNS ON FLOW LINE HOLDING 250 PSI BACK PRESSURE W/ ADJ. ORBIT VALVE WITH VENT LINE OPEN WITH 8-12' FLARE, 9.8 PPG IN/OUT. LITHOLOGY: 9,520 = 90% SH, 10% LS, BACKGROUND GAS:Ø80-330 U, CONNECTION GAS: 2400-2500 U TOTAL GAS FLOW RATE: 209 MCFD TOTAL GAS FLARED: 8724 SCF
TOTAL HRS		24.0				

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DAILY DRILLING REPORT

RPT DATE: 10/19/2021

RPT NUM.: 18

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY / JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST A 17-27-5 WA	RIG PHONE: 432-355-3112
AFE #: 21DC005	API #: 32475381390000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/8/2021	DFS: 9.8	DOL: 48
MD/TVD: 10856 FT/10821 FT	24 HR FTG: 1282	HRS DRLG: 22
PRESENT OPERATIONS: CIRCULATING HOLE CLEAN, PUMPING SWEEPS AT CASING POINT 10,856'		
ACTIVITY PLANNED: TOO H, RUN 7 5/8" CASING, CEMENT		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/19/2021	10/20/2021	None	COMMUNICATION, PINCH POINTS, AND RED ZONES
BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021			
83 MILE RIG MOVE			
138 HOUR (6.75 DAYS) RIG MOVE			
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00			
14.5 HR WALK (.6 DAYS)			
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021			
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021			
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21			
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21			
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021			
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021			
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021			
00:00 – 01:30: PUMP & SPOT 100 BBLs OF 12 PPB WATER LOSS PILL ON BOTTOM DISP WITH 175 BBLs OF 9.8 PPG SYSTEM BRINE, FOLLOWED BY 20 BBLs 16.0 PPG KMW SLUG, PUMP 10 BBLs OF SYSTEM 9.8 PPG, FLOW BACK 10 BBLs TO TRIP TANK, S.I.W W/ 257 SICP. LINE UP ON BACKSIDE W/ 16.0 PPG KMW.			
**FINAL TORQUE: 19,000 FT/LBS DIFFERENCE: 3,000 FT/LBS, FINAL P/U: 325,000 DIFFERENCE: 20K, FINAL S/O: 245,000 DIFFERENCE: 5K.			
01:30 – 03:30: STRIP OUT OF HOLE FOR 7 5/8" INTERMEDIATE CASING F/ 10,856' – INSIDE CASING SHOE @ 4,950' FORCE FILLING @ CALC. DISPLACEMENT WITH 16.0 PPG KMW ICP: 257 PSI, PRESSURE TO 85 PSI @ 49 BBLs OF 16.0 PPG KMW			
TOTAL FOOTAGE PULLED 5,903', AVG FPH PULLED: 2,953' FPH.			
**NO OVERPULL OR EXCESSIVE TIGHT SPOTS ENCOUNTERED.			
**1ST SWEEP CALC WASHOUT 9%			
**2ND SWEEP CALC WASHOUT 9%			
03:30 – 04:00: SHUT IN WELL AGAINST ANNULAR WITH INITIAL S.I.C.P OF 85 PSI AND BULLHEAD 16PPG KMW DOWN BACKSIDE, PRESSURE BUILT UP TO 133 PSI BEFORE BREAKING OVER AND ESTABLISHING INJECTION @ 35 SPM, CONTINUE PUMPING 39 BBL OF 16 PPG KMW TO ACHIEVE ZERO PRESSURE. OPEN WELL & FLOW CHECK WELL (WELL STATIC) FILL BACKSIDE WITH 15 BBLs OF 9.8 PPG SYSTEM BRINE F/ TRIP TANK. NO RETURNS.			
04:00 – 04:30: RIG SERVICE, PLUG HYDRAULIC LINE TO BLOWN TOPDRIVE COMPENSATOR SEALS			
04:30 – 06:00: TOO H F/ 4,950' - T/ 1,500', PUMPING CALCULATED DISPLACEMENT 9.8 PPG SYSTEM MUD MONITORING WELL AT TRIP TANK			

LAST B.O.P TEST: 10/8/2021 (DUE AGAIN BY 10/29/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (6 HRS TOTAL)

NPT: 0 HRS (26 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$44,594	CUM DRILL COST: \$1,163,188	CUM MUD COST: \$70,915	CUM WELL COST: \$1,163,188
BOP				
LAST BOP TEST:	10/8/21	LAST BOP DRILL:	10/18/21	NEXT BOP TEST: 10/29/21

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	9.9	28.0	99.0	9.6	1	1	1	2	1	2	90,000	0.30	0.50	11,000	5.40	

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
4	9.88	NOV	TKC66	A28291	6x15	1.035	N	9,574	10,856	1,282	22.0	45	153	58.3
3	9.88	NOV	TKC66	A282920	6x15	1.035	N	5,016	7,998	2,982	18.0	45	102	165.7

BIT NO. 3 INNER: 8 OUTER: 4 DULL: RO LOC: N SEAL: X GAUGE: I OTHER: BT RP: PR

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	103	3800	400	.00165	95	0			0	0
2	WEATHERFORD	EQ-2200	5.000	12.000	103	3800	400	.00165	95	0			0	0

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-9 7/8 PDC Bit, Reed Hycalog TKC66	9.875	1.5	1	7	Sub-8 EVO Gap Sub	8	3.25	3.42
2	Motor-8" PDM ERT 9/10 3.9 @ 1.83deg F	8	3.5	33.02	8	Monel Collar-8" NMDC	8.062	3.75	30.93
3	Monel Collar-8" NMPC	8.312	3.5	15.26	9	Monel Collar-8" NMDC	8.062	3.75	30.87
4	Sub-8 EVO X-O Sub	8	3.25	3.14	10	Sub-8" XO Sub NC56 Box X 6 5/8 Reg pin	8	2.875	3.2
5	Sub-8 EVO Landing Sub	8	3.25	3.76	11	Drill Collar-3) 8" DC	8	2.875	90.69
6	Sub-8 EVO Centralizer Sub	8	3.25	8.5	12	X-Over-8" XO Sub	8	2.25	2.88

DESCRIPTION: BHA #4

LENGTH: 868.13

ROT. WT.: 290,000

BHA WT. AIR:

P.U. WT.: 350,000

BHA WT. MUD:

S.O. WT.: 240,000

HRS. ON JARS:

TORQUE: 10,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
10,164	1.77	212.31	10,130	-532.3	75.7	71.7	0.6	
10,256	2.22	236.29	10,222	-534.4	73.5	74.5	1.0	
10,349	2.36	245.22	10,315	-536.2	70.2	78.1	0.4	
10,442	2.84	241.36	10,408	-538.2	66.5	82.2	0.6	
10,534	2.57	243.25	10,500	-540.2	62.6	86.5	0.3	
10,627	2.56	254.22	10,593	-541.7	58.8	90.6	0.5	
10,720	2.44	245.65	10,686	-543.1	54.9	94.6	0.4	
10,796	3.21	248.54	10,762	-544.5	51.5	98.3	1.0	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		3,308	10,282

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/4/2021	13:00	CSG/CEMENT	G.D. THORNTON	TRRC	AUDREY- OP #2	JOB #269199
9/11/2021	10:20	CE CEMENT- NO CIRC	NICHOLS	TRRC	ERIK HANSON	JOB # 269199

[illegible]



DAILY DRILLING REPORT

RPT DATE: 10/19/2021

RPT NUM.: 18

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY / JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST A 17-27-5 WA	RIG PHONE: 432-355-3112
AFE #: 21DC005	API #: 32475381390000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/8/2021	DFS: 9.8	DOL: 48
MD/TVD: 10856 FT/10821 FT	24 HR FTG: 1282	HRS DRLG: 22
PRESENT OPERATIONS: CIRCULATING HOLE CLEAN, PUMPING SWEEPS AT CASING POINT 10,856'		
ACTIVITY PLANNED: TOO H, RUN 7 5/8" CASING, CEMENT		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/19/2021	10/20/2021	None	COMMUNICATION, PINCH POINTS, AND RED ZONES
BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021			
83 MILE RIG MOVE			
138 HOUR (6.75 DAYS) RIG MOVE			
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00			
14.5 HR WALK (.6 DAYS)			
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021			
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021			
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21			
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21			
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021			
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021			
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021			
00:00 – 01:30: PUMP & SPOT 100 BBLs OF 12 PPB WATER LOSS PILL ON BOTTOM DISP WITH 175 BBLs OF 9.8 PPG SYSTEM BRINE, FOLLOWED BY 20 BBLs 16.0 PPG KMW SLUG, PUMP 10 BBLs OF SYSTEM 9.8 PPG, FLOW BACK 10 BBLs TO TRIP TANK, S.I.W W/ 257 SICP. LINE UP ON BACKSIDE W/ 16.0 PPG KMW.			
**FINAL TORQUE: 19,000 FT/LBS DIFFERENCE: 3,000 FT/LBS, FINAL P/U: 325,000 DIFFERENCE: 20K, FINAL S/O: 245,000 DIFFERENCE: 5K.			
01:30 – 03:30: STRIP OUT OF HOLE FOR 7 5/8" INTERMEDIATE CASING F/ 10,856' – INSIDE CASING SHOE @ 4,950' FORCE FILLING @ CALC. DISPLACEMENT WITH 16.0 PPG KMW ICP: 257 PSI, PRESSURE TO 85 PSI @ 49 BBLs OF 16.0 PPG KMW			
TOTAL FOOTAGE PULLED 5,903', AVG FPH PULLED: 2,953' FPH.			
**NO OVERPULL OR EXCESSIVE TIGHT SPOTS ENCOUNTERED.			
**1ST SWEEP CALC WASHOUT 9%			
**2ND SWEEP CALC WASHOUT 9%			
03:30 – 04:00: SHUT IN WELL AGAINST ANNULAR WITH INITIAL S.I.C.P OF 85 PSI AND BULLHEAD 16PPG KMW DOWN BACKSIDE, PRESSURE BUILT UP TO 133 PSI BEFORE BREAKING OVER AND ESTABLISHING INJECTION @ 35 SPM, CONTINUE PUMPING 39 BBL OF 16 PPG KMW TO ACHIEVE ZERO PRESSURE. OPEN WELL & FLOW CHECK WELL (WELL STATIC) FILL BACKSIDE WITH 15 BBLs OF 9.8 PPG SYSTEM BRINE F/ TRIP TANK. NO RETURNS.			
04:00 – 04:30: RIG SERVICE, PLUG HYDRAULIC LINE TO BLOWN TOPDRIVE COMPENSATOR SEALS			
04:30 – 06:00: TOO H F/ 4,950' - T/ 1,500', PUMPING CALCULATED DISPLACEMENT 9.8 PPG SYSTEM MUD MONITORING WELL AT TRIP TANK			
LAST B.O.P TEST: 10/8/2021 (DUE AGAIN BY 10/29/2021)			
NO ACCIDENTS, INCIDENTS, OR SPILLS			
RIG DOWNTIME 0 HRS (6 HRS TOTAL)			
NPT: 0 HRS (26 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$44,594	CUM DRILL COST: \$1,163,188	CUM MUD COST: \$70,915	CUM WELL COST: \$1,163,188
BOP				
LAST BOP TEST:	10/8/21	LAST BOP DRILL:	10/18/21	NEXT BOP TEST: 10/29/21

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	9.9	28.0	99.0	9.6	1	1	1	2	1	2	90,000		0.30	0.50	11,000	5.40

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
4	9.88	NOV	TKC66	A28291	6x15	1.035	N	9,574	10,856	1,282	22.0	45	153	58.3
3	9.88	NOV	TKC66	A282920	6x15	1.035	N	5,016	7,998	2,982	18.0	45	102	165.7

BIT NO. 3	INNER: 8	OUTER: 4	DULL: RO	LOC: N	SEAL: X	GAUGE: I	OTHER: BT	RP: PR
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PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	103	3800	400	.00165	95	0			0	0
2	WEATHERFORD	EQ-2200	5.000	12.000	103	3800	400	.00165	95	0			0	0

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-9 7/8 PDC Bit, Reed Hycalog TKC66	9.875	1.5	1	7	Sub-8 EVO Gap Sub	8	3.25	3.42
2	Motor-8" PDM ERT 9/10 3.9 @ 1.83deg F	8	3.5	33.02	8	Monel Collar-8" NMDC	8.062	3.75	30.93
3	Monel Collar-8" NMPC	8.312	3.5	15.26	9	Monel Collar-8" NMDC	8.062	3.75	30.87
4	Sub-8 EVO X-O Sub	8	3.25	3.14	10	Sub-8" XO Sub NC56 Box X 6 5/8 Reg pin	8	2.875	3.2
5	Sub-8 EVO Landing Sub	8	3.25	3.76	11	Drill Collar-3) 8" DC	8	2.875	90.69
6	Sub-8 EVO Centralizer Sub	8	3.25	8.5	12	X-Over-8" XO Sub	8	2.25	2.88

DESCRIPTION: BHA #4	BHA WT. AIR:	BHA WT. MUD:	HRS. ON JARS:
LENGTH: 868.13	P.U. WT.: 350,000	S.O. WT.: 240,000	TORQUE: 10,000
ROT. WT.: 290,000			

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
10,164	1.77	212.31	10,130	-532.3	75.7	71.7	0.6	
10,256	2.22	236.29	10,222	-534.4	73.5	74.5	1.0	
10,349	2.36	245.22	10,315	-536.2	70.2	78.1	0.4	
10,442	2.84	241.36	10,408	-538.2	66.5	82.2	0.6	
10,534	2.57	243.25	10,500	-540.2	62.6	86.5	0.3	
10,627	2.56	254.22	10,593	-541.7	58.8	90.6	0.5	
10,720	2.44	245.65	10,686	-543.1	54.9	94.6	0.4	
10,796	3.21	248.54	10,762	-544.5	51.5	98.3	1.0	

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		3,308	10,282

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/4/2021	13:00	CSG/CEMENT	G.D. THORNTON	TRRC	AUDREY- OP #2	JOB #269199
9/11/2021	10:20	CE CEMENT- NO CIRC	NICHOLS	TRRC	ERIK HANSON	JOB # 269199

[illegible]



DAILY DRILLING REPORT

RPT DATE: 10/20/2021

RPT NUM.: 19

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/8/2021
MD/TVD: 10856 FT/10821 FT
PRESENT OPERATIONS:
ACTIVITY PLANNED:

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS: 10.8
24 HR FTG:

RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 49
HRS DRLG:

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/20/2021	10/21/2021		COMMUNICATION, PINCH POINTS, AND RED ZONES, RUNNING CASING

83 MILE RIG MOVE

138 HOUR (6.75 DAYS) RIG MOVE

SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00

14.5 HR WALK (.6 DAYS)

SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021

TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021

RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21

PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21

RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021

PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

00:00 – 04:00 CEMENT FIRST STAGE AS FOLLOWS: TEST LINES TO 6,000 PSI, PUMP 25 BBLS FRESH WATER SPACER W/ 2.5PPB SODA ASH+1PPB R-1300+0.5 PPB SUSPENDACEM .002+10 PPB ZONE SEAL, FOLLOWED BY LEAD CEMENT: 800 SKS 50/50 CLASS H (508 BBLS) + 10% GEL + 5% SALT + 5PPS PLEXCRETE STE + 1.8% SMS + 0.5% R-1300+ 3PPS POL-E-FLAKE + 3PPS GILSONITE + 0.005 GPS NO FOAM V1A @ 11.0 PPG, YIELD 3.56 CF/SX, MIX WATER RATIO: 21.75 -GPS PUMPED AT 8 BPM TO MAINTAIN DENSITY WITH 300-675 PSI, FOLLOWED BY TAIL: 130 SKS 100% CLASS H CEMENT W/ 0.2% SMS+0.25% C-20+ 0.2% C-47B+0.005GPS NO FOAM V1A @ 15.6 PPG, YIELD 1.19, WATER MIX RATION: 5.25-GPS PUMPED @ 5.5 BPM TO MAINTAIN DENSITY, DROP PLUG AND KICK OUT AND DISPLACED WITH 493 BBLS OF 8.3 FRESHWATER W/ 400 CHLORIDES @ 13.5 BPM CAUGHT CEMENT PRESSURE @ 150 BBLS, CONTINUE DISP @ 13.5 BPM TO 240BBLS AWAY, LOST RETURNS STAGE PUMPS DOWN TO 4 BPM, CONTINUE JOB WITHOUT RETURNS, FINAL LIFT PRESSURE WAS 1640 PSI, PRESSURED UP TO 2500 PSI, HELD FOR 2 MIN'S,

04:00-06:00 CONTINUE TO PRESSURE UP TO 2,700 PRESSURE STABILIZED SHEAR PRESSURE, CONTINUE TO PRESSURE UP TO 2,900 @ 0.5 BPM PRESSURING UP TO 3,400PSI PUMPED ½ BBL TO FULL PACKER EXPANSION HELD FOR 5 MIN'S, BLEED BACK 2/10'S OF BARREL TO ORIGINAL PRESSURE OF 2,500 PSI, BLEED BACK 4.5 BBLS, FLOATS HOLDING, BLEED PRESSURE & DROP D/V OPENING CONE WITH OSP FIELD TECH WAITED 20 MIN'S & PRESSURE UP TO 1,120 PSI TO OPEN D/V TOOL, PUMP 10BBLS FRESH WATER AHEAD WITH CEMENTERS, SWITCH TO RIG, FORWARD CIRCULATE WITH 30BBLS DYED WATER FROM SLUG TANK, CONTINUE CIRCULATING TO DISPAE DYED WATER TO SURFACE

LAST B.O.P TEST: 10/8/2021 (DUE AGAIN BY 10/29/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (6 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$49,323	CUM DRILL COST: \$1,220,394	CUM MUD COST: \$81,646	CUM WELL COST: \$1,220,394
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BOP

LAST BOP TEST:	10/8/21	LAST BOP DRILL:	NEXT BOP TEST:	10/29/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	9.8	28.0	99.0	9.4	1	1	1	2	1	1	91,500		0.30	0.40	10,760	2.60

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
4	9.88	NOV	TKC66	A28291	6x15	1.035	N	9,574	10,856	1,282	22.0	45	153	58.3
3	9.88	NOV	TKC66	A282920	6x15	1.035	N	5,016	7,998	2,982	18.0	45	102	165.7

BIT NO. 3 INNER: 8 OUTER: 4 DULL: RO LOC: N SEAL: X GAUGE: I OTHER: BT RP: PR

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	87	540	270	.00165	95	0			0	0
2	WEATHERFORD	EQ-2200	5.000	12.000	87	540	270	.00165	95	0			0	0

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-9 7/8 PDC Bit, Reed Hycalog TKC6	9.875	1.5	1	7	Sub-8 EVO Gap Sub	8	3.25	3.42
2	Motor-8" PDM ERT 9/10 3.9 @ 1.83deg F	8	3.5	33.02	8	Monel Collar-8" NMDC	8.062	3.75	30.93
3	Monel Collar-8" NMPC	8.312	3.5	15.26	9	Monel Collar-8" NMDC	8.062	3.75	30.87
4	Sub-8 EVO X-O Sub	8	3.25	3.14	10	Sub-8" XO Sub NC56 Box X 6 5/8 Reg pin	8	2.875	3.2
5	Sub-8 EVO Landing Sub	8	3.25	3.76	11	Drill Collar-3) 8" DC	8	2.875	90.69
6	Sub-8 EVO Centralizer Sub	8	3.25	8.5	12	X-Over-8" XO Sub	8	2.25	2.88

DESCRIPTION: BHA #4

LENGTH: 868.13

ROT. WT.:

BHA WT. AIR:

P.U. WT.:

BHA WT. MUD:

S.O. WT.:

HRS. ON JARS:

TORQUE:

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
10,164	1.77	212.31	10,130		-532.3	75.7	71.7	0.6
10,256	2.22	236.29	10,222		-534.4	73.5	74.5	1.0
10,349	2.36	245.22	10,315		-536.2	70.2	78.1	0.4
10,442	2.84	241.36	10,408		-538.2	66.5	82.2	0.6
10,534	2.57	243.25	10,500		-540.2	62.6	86.5	0.3
10,627	2.56	254.22	10,593		-541.7	58.8	90.6	0.5
10,720	2.44	245.65	10,686		-543.1	54.9	94.6	0.4
10,796	3.21	248.54	10,762		-544.5	51.5	98.3	1.0

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,114	9,168

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRCUI	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	01:30	1.5				<p>PUMP & SPOT 100 BBLs OF 12 PPB WATER LOSS PILL ON BOTTOM DISP WITH 175 BBLs OF 9.8 PPG SYSTEM BRINE, FOLLOWED BY 20 BBLs 16.0 PPG KMW SLUG, PUMP 10 BBLs OF SYSTEM 9.8 PPG, FLOW BACK 10 BBLs TO TRIP TANK, S.I.W W/ 257 SICP. LINE UP ON BACKSIDE W/ 16.0 PPG KMW.</p> <p>**FINAL TORQUE: 19,000 FT/LBS DIFFERENCE: 3,000 FT/LBS, FINAL P/U: 325,000 DIFFERENCE: 20K, FINAL S/O: 245,000 DIFFERENCE: 5K.</p> <p>**1ST SWEEP CALC WASHOUT 9% **2ND SWEEP CALC WASHOUT 9%</p>
01:30	03:30	2.0	INTERMEDIATE CASING	COND MUD & CIRC		<p>STRIP OUT OF HOLE FOR 7 5/8" INTERMEDIATE CASING F/ 10,856' – INSIDE CASING SHOE @ 4,950' FORCE FILLING @ CALC. DISPLACEMENT WITH 16.0 PPG KMW ICP: 257 PSI, PRESSURE TO 85 PSI @ 49 BBLs OF 16.0 PPG KMW TOTAL FOOTAGE PULLED 5,903', AVG FPH PULLED: 2,953' FPH.</p> <p>**NO OVERPULL OR EXCESSIVE TIGHT SPOTS ENCOUNTERED.</p>
03:30	04:00	0.5	INTERMEDIATE CASING	TRIPS		<p>SHUT IN WELL AGAINST ANNULAR WITH INITIAL S.I.C.P OF 85 PSI AND BULLHEAD 16PPG KMW DOWN BACKSIDE, PRESSURE BUILT UP TO 133 PSI BEFORE BREAKING OVER AND ESTABLISHING INJECTION @ 35 SPM, CONTINUE PUMPING 39 BBL OF 16 PPG KMW TO ACHIEVE ZERO PRESSURE. OPEN WELL & FLOW CHECK WELL (WELL STATIC) FILL BACKSIDE WITH 15 BBLs OF 9.8 PPG SYSTEM BRINE F/ TRIP TANK. NO RETURNS.</p>
04:00	04:30	0.5	INTERMEDIATE CASING	COND MUD & CIRC		RIG SERVICE, PLUG HYDRAULIC LINE TO BLOWN TOPDRIVE COMPENSATOR SEALS
04:30	06:00	1.5	INTERMEDIATE CASING	RIG SERVICE		<p>CONTINUE T.O.O.H F/ 4,950' - T/ 867", PUMPING CALCULATED DISPLACEMENT 9.8 PPG SYSTEM MUD MONITORING WELL AT TRIP TANK, FLOW CHECK WELL AT BHA. (WELL STATIC)</p> <p>LAYING DOWN 5" HWDP, 6.5" DRILL COLLARS & 8" D.C'S F/ 867' - T/ 132' BHA, MONITORING DISP @ TRIP TANK PUMPING CALC. DISP F/ TRIP TANK.</p> <p>**JSA & SAFETY MEETING WITH UNIT DRILLING PERSONAL OVER TRIPPING OUT OF HOLE LAYING DOWN BHA AND POTENTIAL EXPOSURES.</p>
06:00	08:30	2.5	INTERMEDIATE CASING	TRIPS		<p>LAY DOWN BHA #4 AS FOLLOWS: 9 7/8" NOV TKC66, 6 X 15'S JETS, TFA 1.035. SN- A28291, 8" NOV PERFORMANCE MOTOR 9/10, 3.9 STG, ADJ SET AT 1.50" 0.11 REV/GAL, FLOW RANGE: 600-900 GPM, MAX TRQ 25,580, MAX DIFF 1,150. BIT TO BEND: 6.12', KICK PAD OD: 8.31", 1- 8"NMPDC, 8" EVO X.O SUB, 8" EVO CENTRALIZER SUB, 8" LANDING GAP SUB, 2-8" NMDC, XO, 3 - 8" DC, XO, 9 - 6.5" DC, XO, 12 - 5" HWDP. BIT TO SURVEY =61', BIT TO GAMMA = 58. HWDP. BIT TO SURVEY =61', BIT TO GAMMA = 58.</p> <p>BIT GRADE: 1-2-BT-G-I-X-NO-TD HAD TWO BROKEN CUTTERS ON GAUGE ROW. NO OTHER VISIBLE DAMAGE</p> <p>**JSA & SAFETY MEETING WITH PREMIER, COMP REP AND ALL UNIT DRILLING PERSONAL OVER LAYING DOWN DIRECTIONAL TOOLS & JOB STEPS FOCUSING ON ELIMINATING POTENTIAL EXPOSURES.</p>
08:30	10:30	2.0	INTERMEDIATE CASING	DIR WORK		
10:30	11:00	0.5	INTERMEDIATE CASING	OTHER		PULL WEAR BUSHING & INSTALL TRIP NIPPLE.

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DAILY DRILLING REPORT

RPT DATE: 10/21/2021

RPT NUM.: 20

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/8/2021
MD/TVD: 10856 FT/10831 FT
PRESENT OPERATIONS: DRILLING OUT FLOAT AND SHOE
ACTIVITY PLANNED: DRILL 6 3/4" CURVE SECTION AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS: 11.8
24 HR FTG:

RIG SUPERV: MICHAEL MCCARTY / JOSH GILMORE
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 50
HRS DRLG: 1

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/21/2021	10/22/2021	None	COMMUNICATION, PINCH POINTS, AND RED ZONES, BOP EQUIPMENT
BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021			
83 MILE RIG MOVE			
138 HOUR (6.75 DAYS) RIG MOVE			
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00			
14.5 HR WALK (6 DAYS)			
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021			
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021			
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21			
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21			
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021			
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021			
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021			
00:00 – 04:00 TRIP IN HOLE WITH BHA #5 F/ 4,945' - T/ 10,698' TAKING DISPLACEMENT OVER BOARD.			
04:00 – 05:00 TRIP IN HOLE AND TAG CEMENT @ 10'698', FILL PIPE AND CIRCULATE 1000 STROKES, SHUT DOWN CLOSE PIPE RAMS, PERFORM 30MIN CASING TEST HOLDING 1500PSI			
*HELD BOP DRILL AND WELL CONTROL EQUIPMENT ORIENTATION WITH CREW DURING CASING TEST			
05:00 – 06:00 DRILL OUT FLOAT COLLAR, LINE UP TO DISPLACE TO OBM, DISPLACE TO OBM ON THE FLY WHILE DRILLING SHOE TRACK AND FLOAT SHOE, CONTINUE TO WASH IN THE HOLE TO 10,856', DRILL 1' NEW HOLE. CONDITION AND CIRCULATE MUD UNTIL EVEN MUD PROPERTIES IN /OUT. PERFORM FIT TEST TO 14 PPG EQUIVALENT MUD DENSITY			

LAST B.O.P TEST: 10/8/2021 (DUE AGAIN BY 10/29/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (6 HRS TOTAL)

NPT: 0.0 HRS (26 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250 DAILY DRILL COST: \$169,917 CUM DRILL COST: \$1,412,098 CUM MUD COST: \$84,544 CUM WELL COST: \$1,412,098

BOP

LAST BOP TEST: 10/21/21 LAST BOP DRILL: NEXT BOP TEST: 11/11/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
5	6.75	ULTERRA	U611S	57762	6x15	1.035	N	0						
4	9.88	NOV	TKC66	A28291	6x15	1.035	N	9,574	10,856	1,282	22.0	45	153	58.3
BIT NO. 4		INNER: 2	OUTER: 1	DULL: CT	LOC: N	SEAL: X	GAUGE: I	OTHER: NO	RP: TD					

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	87	540	270	.00165	95	0			0	0
2	WEATHERFORD	EQ-2200	5.000	12.000	87	540	270	.00165	95	0			0	0

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Ulterra U611S PDC Bit TFA	6.75		1	8	Monel Collar-5" NMDC	5	2.75	28.57
2	Motor-5" PDM @ 2.12deg CR-AB Fxd. 6/7	5	2	28.68	9	Monel Collar-5" NM Flex DC	4.75	2.688	29.24
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	2.95					
6	Monel Collar-5" NMDC	5	2.688	30.5					
7	Monel Collar-5" NMDC	5	2.75	29.06					

DESCRIPTION: BHA #5

LENGTH: 167.47

ROT. WT.:

BHA WT. AIR:

P.U. WT.:

BHA WT. MUD:

S.O. WT.:

HRS. ON JARS:

TORQUE:

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
10,164	1.77	212.31	10,130		-532.3	75.7	71.7	0.6
10,256	2.22	236.29	10,222		-534.4	73.5	74.5	1.0
10,349	2.36	245.22	10,315		-536.2	70.2	78.1	0.4
10,442	2.84	241.36	10,408		-538.2	66.5	82.2	0.6
10,534	2.57	243.25	10,500		-540.2	62.6	86.5	0.3
10,627	2.56	254.22	10,593		-541.7	58.8	90.6	0.5
10,720	2.44	245.65	10,686		-543.1	54.9	94.6	0.4
10,796	3.21	248.54	10,762		-544.5	51.5	98.3	1.0

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		937	8,231

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRCUL	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199



DAILY DRILLING REPORT

RPT DATE:

RPT NUM.:

RIG:

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/8/2021
MD/TVD: 10856 FT/10831 FT
PRESENT OPERATIONS: DRILLING OUT FLOAT AND SHOE
ACTIVITY PLANNED: DRILL 6 3/4" CURVE SECTION AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS: 11.8
24 HR FTG:

RIG SUPERV: MICHAEL MCCARTY / JOSH GILMORE
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 50
HRS DRLG: 1

COST BREAKDOWN

Code	Description	Daily Cost	Vendor	Remarks
2250-40		\$ 18,325	UNIT DRILLING	DAILY RIG COST FOR UNIT BOSS RIG. + \$25/MAN OBM
2250-65		\$ 21,463	ROLFSON OIL	RIG FUEL 7200GAL @ 2.634/GAL + TAX
2250-70	CORVA	\$ 258	CORVA	CORVA DAILY COSTS
2250-70	HOUSING	\$ 515	CIVEO	CAMP HOUSING. X5, TRANSFORMER
2250-70	INTERNET, PHONES, COM'S	\$ 140	INFRASTRUCTURE NETWORKS	INTERNET, PHONES, COM'S
2250-70	PASON	\$ 55	PASON	PASON COMPUTER
2250-70	WATER FLEET DAILY RENTAL.	\$ 560	WATERFLEET	WATER FLEET DAILY
2250-70	WELLDRIVE	\$ 50	WELLDRIVE	WELLDRIVE
2250-75	DIRECTIONAL TOOLS HOT SHOT DELIVERY	\$ 1,650	TO A TEE	HAUL OUT 4.5" EQUIPMENT #005580
2250-75	HAUL BACK DIRECTIONAL TOOLS	\$ 563	TO A TEE	HAUL OUT AGITATORS, HAUL BACK MUD MOTORS #006038
2250-80	DRILLING ADVISOR	\$ 80	FOCUSED DRILLING & COMPLETIONS LLC	DRILLING ADVISOR
2250-80	WELLSITE SURVISOR ELWYN EVANS	\$ 2,000	OIL CITY DRILLING SERVICES, LLC	WELLSITE SUPERVISION
2250-80	WELLSITE SURVISOR MICHAEL MCCARTY	\$ 2,000	WORKRISE	WELLSITE SUPERVISION
2250-85	WELLHEAD HAND	\$ 2,869	CACTUS WELLHEAD, LLC	LAND OUT, INSTALL 7.625" PACKOFF, #0384364
2250-95	CHOKES AND FLARE LINE	\$ 742	IRON HORSE TOOLS, INC.	CHOKES AND FLARE LINE
2250-95	DISPOSAL POLY LINE	\$ 121	JACK MILLSAP COMPANY, INC.	DISPOSAL POLY LINE
2250-95	FORKLIFT, MANLIFT, LIGHT TOWERS	\$ 578	SKEWL ENERGY SERVICES	FORKLIFT, MANLIFT, LIGHT TOWERS, TRASH TRAILER
2250-95	GENERATOR, PUMP, AND POLYLINE	\$ 169	JACK MILLSAP COMPANY, INC.	GENERATOR, PUMP, AND POLYLINE
2250-95	H2S MONITORING SYSTEM	\$ 81	CANON SAFETY SERVICES	H2S MONITORING
2250-95	INLINE MUD SCREEN	\$ 75	BLACK DIAMOND	INLINE MUD SCREEN
2250-95	IRONHORSE	\$ 384	CACTUS WELLHEAD, LLC	SERVICE CHOKES #100092
2250-95	MUD VAC & DIESEL SCREEN WASHER	\$ 121	EAST TEXAS SUPPLY	MUD VAC & DIESEL WASHER
2250-95	PVT & RIG MONITORING	\$ 792	NOV	TOTCO PVT & RIG MONITORING
2250-95	ROCKIT	\$ 492	NABORS DRILLING SOLUTIONS	ROCKIT DAILY RENTAL
2250-95	ROTATING HEAD	\$ 475	ADS	20" ROTATING HEAD
2250-95	STAGE 3	\$ 2,385	STAGE 3 SEPARATION	CENTRIFUGE, SHAKERS, HOG TROUGH, HAND
2250-95	TRANSFER PUMPS x4, 4x4 DIESEL PUMP, T	\$ 1,405	SKEWL ENERGY SERVICES	PUMPS, TANK FARM, DIESEL PUMP
2250-105	CASING CREW & EQUIPMENT	\$ 11,048	4 STAR USA	CASING CREW FOR 7.625" CASING #1566
2250-110	CEMENTING SERVICES & EQUIPMENT	\$ 50,660	WEST TEXAS CEMENTERS	CEMENT 2 STAGE INTERMEDIATE #WTCOD-2048
2250-115	DIRECTIONAL COST	\$ 6,495	TALLY DRILLING SERVICES	
2250-125	DRILLING MUD CHEMICALS & PERSONAL	\$ 2,898	AES DRILLING FLUIDS INC	DRILLING MUD CHEM'S & PERSONAL.
Total:		\$ 129,448		

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	05:00	5.0				CEMENT FIRST STAGE AS FOLLOWS: TEST LINES TO 6,000 PSI, PUMP 25 BBLS FRESH WATER SPACER W/ 2.5PPB SODA ASH+1PPB R-1300+0.5 PPB SUSPENDACEM .002+10 PPB ZONE SEAL, FOLLOWED BY LEAD CEMENT: 800 SKS 50/50 CLASS H (508 BBLS) + 10% GEL + 5% SALT + 5PPS PLEXCRETE STE + 1.8% SMS + 0.5% R-1300+ 3PPS POL-E-FLAKE + 3PPS GILSONITE + 0.005 GPS NO FOAM V1A @ 11.0 PPG, YIELD 3.56 CF/SX, MIX WATER RATIO: 21.75 -GPS PUMPED AT 8 BPM TO MAINTAIN DENSITY WITH 300-675 PSI, FOLLOWED BY TAIL: 130 SKS 100% CLASS H CEMENT W/ 0.2% SMS+0.25% C-20+ 0.2% C-47B+0.005GPS NO FOAM V1A @ 15.6 PPG, YIELD 1.19, WATER MIX RATION: 5.25-GPS PUMPED @ 5.5 BPM TO MAINTAIN DENSITY, DROP PLUG AND KICK OUT AND DISPLACED WITH 493 BBLS OF 8.3 FRESHWATER W/ 400 CHLORIDES @ 13.5 BPM CAUGHT CEMENT PRESSURE @ 150 BBLS, CONTINUE DISP @ 13.5 BPM TO 240BBLS AWAY, LOST RETURNS STAGE PUMPS DOWN TO 4 BPM, CONTINUE JOB WITHOUT RETURNS, FINAL LIFT PRESSURE WAS 1640 PSI, PRESSURED UP TO 2500 PSI, HELD FOR 2 MIN'S,
05:00	07:30	2.5	INTERMEDIATE CASING	RUN CSG & CEMENT		CONTINUE TO PRESSURE UP TO 2,700 PRESSURE STABILIZED SHEAR PRESSURE, CONTINUE TO PRESSURE UP TO 2,900 @ 0.5 BPM PRESSURING UP TO 3,400PSI PUMPED ½ BBL TO FULL PACKER EXPANSION HELD FOR 5 MIN'S, BLEED BACK 2/10'S OF BARREL TO ORIGINAL PRESSURE OF 2,500 PSI, BLEED BACK 4.5 BBLS, FLOATS HOLDING, BLEED PRESSURE & DROP D/V OPENING CONE WITH OSP FIELD TECH WAITED 20 MIN'S & PRESSURE UP TO 1,120 PSI TO OPEN D/V TOOL, PUMP 10BBLS FRESH WATER AHEAD WITH CEMENTERS, SWITCH TO RIG, FORWARD CIRCULATE WITH 30 BBLS DYED WATER FROM SLUG TANK, CONTINUE CIRCULATING TO DISPLACE DYED WATER TO SURFACE, DYE BACK TO SURFACE @ 7200 STKS WITH DYE SPACED OUT BETWEEN SECTION, TROUBLE SHOT EXCESS VOLUMES, SHUT DOWN PUMP & VERIFY NO FLOW, LINE UP TO TRIP TANK PUMP 10 BBLS TO TRIP TANK DOWN CASING RETURNING TO TRIP TANK, VOLUME RETURNED 12.1 BBL, 98% PUMP EFFICIENCY, OPEN 2" AND SHUT 4" PUMP ADDITIONAL 10 BBLS TO TRIP TANK TO VERIFY PUMP OUTPUT (CORRECT OUT PUT) CLOSE 4" STAND PIPE & PRESSURE TEST (OK)
07:30	09:00	1.5	INTERMEDIATE CASING	RUN CSG & CEMENT		PUMP 30 BBL NUT PLUG MARKER SWEEP, @ 8BPM AFTER VERIFYING PUMPS AND EFFICIENCY, SWEEP BACK TO SURFACE AT CALC. STROKES, PUMP 2ND STAGE CEMENT AS FOLLOWS: PUMP 20 BBLS FRESH WATER, PUMP 340 SX CLASS C+0.005GPS NOFOAM V1A (215.1 BBLS) @ 11.0 PPG, YIELD 3.55, 3.55-CF/SX, 20% EXCESS., FOLLOWED BY 105 SX (24.9 BBLS) 14.8 PPG, YIELD : 1.33-CF/SX, MIX WATER: 6.35-GPS, 20% EXCESS. DROP CLOSING PLUG AND DISPLACE W/ 227 BBLS 8.3 PPG FRESH WATER. FINAL LIFT PRESSURE 900 PSI @ 4.0 BPM, BUMPED PLUG ON TIME, PRESSURE UP TO 2800 PSI TO CLOSE DV TOOL AT 08:46AM. FINAL LIFT PRESSURE WAS 900 PSI @ 4 BPM. GOT 35 BBLS OF CEMENT BACK TO SURFACE. HAD FULL RETURNS THROUGHOUT THE JOB.
09:00	11:30	2.5	INTERMEDIATE CASING	RUN CSG & CEMENT		RIG DOWN CEMENTERS.
			INTERMEDIATE CASING	OTHER		OPEN CASING VALVE & REMOVE LANDING JOINT & LAY DOWN SAME, M/U CACTUS PACK OFF AND SET TEST PACK AS PER CACTUS INSTALL PROCEDURES WITH CACTUS TECH TEST TO 5000 PSI FOR 20 MIN'S, LAY DOWN RUNNING TOOL.

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DAILY DRILLING REPORT

RPT DATE: 10/22/2021

RPT NUM.: 21

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC005

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/8/2021

MD/TVD: 11252 FT/11190 FT

PRESENT OPERATIONS: DRILLING AHEAD 6.75" CURVE SECTION

ACTIVITY PLANNED: DRILL AHEAD TO LANDING POINT, CONTINUE DRILLING AHEAD IN 6.75" LATERAL

JOB: DRILLING

LEASE: UL JEFF EAST A 17-27-5 WA

API #: 32475381390000

ELEVATION: 2681

DFS: 12.8

24 HR FTG: 396

RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 51

HRS DRLG: 15.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/19/2021	10/20/2021	None	CONNECTIONS, LAYING DOWN DRILL PIPE, WORKING WITH OBM

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021

83 MILE RIG MOVE

138 HOUR (6.75 DAYS) RIG MOVE

SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00

14.5 HR WALK (.6 DAYS)

SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021

TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021

RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21

PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21

RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021

PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

0000 - 0600 : ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION CURVE F/ 11,252' - T/ 11,500' (243' @ 41 FPH) WOB: 8-28K, GPM: 270-325, PPSI: 3,330, DIFF: 150-450 PSI, UTILIZING ROCKET SYSTEM @ 2 & 2 WRAPS WITH 3,600 FT/LBS OF RECIPROCATING TORQUE, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90% SHALE, 10% LIMESTONE, BG GAS: 13-85U, CONN GAS: 29-54U, MUD WEIGHT IN/OUT 12.0 PPG. 12.98 CALCULATED ECD WITH NO LOSSES.

LAST B.O.P TEST: 10/8/2021 (DUE AGAIN BY 10/29/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (6 HRS TOTAL)

NPT: 0.0 HRS (26 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$68,079	CUM DRILL COST: \$1,761,540	CUM MUD COST: \$92,268	CUM WELL COST: \$1,761,540
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BOP

LAST BOP TEST:	10/21/21	LAST BOP DRILL:	NEXT BOP TEST:	11/11/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	11.9	42.0	12.0		2	6	8	9	20	10	44,000			75.00	7.20	12.00

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
5	6.75	ULTERRA	U611S	57762	6x15	1.035	N	10,856	11,252	396	13.7	20	264	28.8
4	9.88	NOV	TKC66	A28291	6x15	1.035	N	9,574	10,856	1,282	22.0	45	153	58.3

BIT NO. 4	INNER: 2	OUTER: 1	DULL: CT	LOC: N	SEAL: X	GAUGE: I	OTHER: NO	RP: TD
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PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	4.000	12.000	104	3325	325	0.00176	95	0			0	0
2	WEATHERFORD	EQ-2200	5.000	12.000	87		0	0.00176	95	0			0	0

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Ulterra U611S PDC Bit TFA	6.75		1	8	Monel Collar-5" NMDC	5	2.75	28.57
2	Motor-5" PDM @ 2.12deg CR-AB Fxd. 6/7	5	2	28.68	9	Monel Collar-5" NM Flex DC	4.75	2.688	29.24
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	2.95					
6	Monel Collar-5" NMDC	5	2.688	30.5					
7	Monel Collar-5" NMDC	5	2.75	29.06					

DESCRIPTION: BHA #5

LENGTH: 167.47

ROT. WT.: 195,000

BHA WT. AIR:

P.U. WT.: 210,000

BHA WT. MUD: 195,000

S.O. WT.: 185,000

HRS. ON JARS:

TORQUE: 7,150

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
10,534	2.57	243.25	10,500		-540.2	62.6	86.5	0.3
10,627	2.56	254.22	10,593		-541.7	58.8	90.6	0.5
10,720	2.44	245.65	10,686		-543.1	54.9	94.6	0.4
10,796	3.21	248.54	10,762		-544.5	51.5	98.3	1.0
10,903	7.78	244.47	10,868		-548.7	42.2	108.5	4.3
10,998	18.73	251.33	10,961		-556.4	21.9	130.1	11.6
11,092	26.77	251.15	11,047		-568.1	-12.5	166.4	8.6
11,187	40.53	254.32	11,126		-583.4	-62.8	218.9	14.6

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,864	6,367

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRCU	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199

[illegible]



DAILY DRILLING REPORT

RPT DATE: 10/23/2021

RPT NUM.: 22

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC005

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/8/2021

MD/TVD: 12374 FT/11352 FT

PRESENT OPERATIONS: TRIPPING FOR LATERAL BHA

ACTIVITY PLANNED: M/U LATERAL BHA, TRIP IN HOLE, DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING

LEASE: UL JEFF EAST A 17-27-5 WA

API #: 32475381390000

ELEVATION: 2681

DFS: 13.8

24 HR FTG: 1122

RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 52

HRS DRLG: 22.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/19/2021	10/20/2021	None	COMMUNICATION, PINCH POINTS, AND RED ZONES
83 MILE RIG MOVE 138 HOUR (6.75 DAYS) RIG MOVE SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00 14.5 HR WALK (.6 DAYS) SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021 TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021 RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21 PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21 RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021 RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021 PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021 0000 – 0300 : TRIP OUT OF HOLE FOR LATERAL BHA ASSEMBLY F/ 12,373' - T/ 4,900' MONITORING DISP T/F TRIP TANK WELL TAKING CORRECT DISP. TOTAL FOOTAGE PULLED: 7,473', AVG PULLED PER HR: 2,491 FT/HR. 0300 – 0330 : PULL ROTATING HEAD & INSTALL TRIP NIPPLE / FLOW CHECK WELL AT 4900' (WELL STATIC) 0330 – 0500 : TRIP OUT OF HOLE FOR LATERAL BHA ASSEMBLY F/ 4,900' - T/ 180' BHA MONITORING DISP T/F TRIP TANK WELL TAKING CORRECT DISP. TOTAL FOOTAGE PULLED: 4,720', AVG PULLED PER HR: 3,147 FT/HR. 0500 – 0600 : P/U & M/U 6 3/4" LATERAL BHA #6 AS FOLLOWS: ULTERRA RPS613, 4X18 2X16 JETS, 1.39 TFA, SN-57408, 5.25" MOTOR 6/7 8.0STG FIXED SET AT 1.83DEG 0.81REV/GAL, MAX TQ 7,632, MAX DIFF 2400, BIT TO BEND 3.9", KICK PAD OD 5.31", 5" TANDEM FLOAT SUB, 1-5" NMPC, 5" UBHO SUB, 3-5" NMDC, 1-5" NM FLEX DC, 5.75" XO, 2 STANDS DP, DRILL AND REAM, 23 STANDS DP, 5" POWER PULSE AGITATOR, SN-IFT-525-004 (2555' BACK), 37 STANDS DP, 5" ACTIVE PULSE AGITATOR, SN IFT-525-092 (6047' BACK) **SAFETY MEETING & JSA OVER LAYING DOWN BHA WITH ALL UNIT, PREMIER DIRECTIONAL, COMP REP.			

LAST B.O.P TEST: 10/8/2021 (DUE AGAIN BY 10/29/2021)

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$89,908	CUM DRILL COST: \$1,888,408	CUM MUD COST: \$111,437	CUM WELL COST: \$1,888,408
BOP				
LAST BOP TEST:	10/21/21	LAST BOP DRILL:	NEXT BOP TEST: 11/11/21	

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80		

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	12.0	56.0			2	7	9	10	18	10	41,000			77.00	6.30	11.00

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
5	6.75	ULTERRA	U611S	57762	6x15	1.035	N	11,252	12,374	1,122	21.3	30	264	52.7
4	9.88	NOV	TKC66	A28291	6x15	1.035	N	9,574	10,856	1,282	22.0	45	153	58.3

BIT NO. 4 INNER: 2 OUTER: 1 DULL: CT LOC: N SEAL: X GAUGE: I OTHER: NO RP: TD

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	104	4430	322	.00165	95	13.06	363	446.8	839.99	1237
2	WEATHERFORD	EQ-2200	5.000	12.000			0	.00165	95	0			0	0

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Ulterra U611S PDC Bit TFA	6.75		1	8	Monel Collar-5" NMDC	5	2.75	28.57
2	Motor-5" PDM @ 2.12deg CR-AB Fxd. 6/7	5	2	28.68	9	Monel Collar-5" NM Flex DC	4.75	2.688	29.24
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	2.95					
6	Monel Collar-5" NMDC	5	2.688	30.5					
7	Monel Collar-5" NMDC	5	2.75	29.06					

DESCRIPTION: BHA #5

LENGTH: 167.47

ROT. WT.: 193,000

BHA WT. AIR: 10,030

P.U. WT.: 215,000

BHA WT. MUD: 8,225

S.O. WT.: 175,000

HRS. ON JARS:

TORQUE: 11,500

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
11,653	79.30	254.05	11,347	-692.5	-449.2		620.4	8.8
11,748	88.48	256.51	11,357	-716.5	-540.5		714.7	10.0
11,839	93.41	257.48	11,355	-737.0	-629.1		805.6	5.5
11,934	94.99	257.83	11,348	-757.2	-721.6		900.2	1.7
12,028	92.18	258.89	11,343	-776.2	-813.5		993.7	3.2
12,121	85.45	257.04	11,344	-795.5	-904.4		1,086.5	7.5
12,215	86.15	256.51	11,351	-817.0	-995.6		1,180.1	0.9
12,309	90.86	257.83	11,354	-837.8	-1,087.2		1,273.9	5.2

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,203	2,376	11,194

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRC	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199



DAILY DRILLING REPORT

RPT DATE:

RPT NUM.:

RIG:

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC005

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/8/2021

MD/TVD: 12374 FT/11352 FT

PRESENT OPERATIONS: TRIPPING FOR LATERAL BHA

ACTIVITY PLANNED: M/U LATERAL BHA, TRIP IN HOLE, DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING

LEASE: UL JEFF EAST A 17-27-5 WA

API #: 32475381390000

ELEVATION: 2681

DFS: 13.8

24 HR FTG: 1122

RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 52

HRS DRLG: 22.5

COST BREAKDOWN

Code	Description	Daily Cost	Vendor	Remarks
2250-40		\$ 18,325	UNIT DRILLING	DAILY RIG COST FOR UNIT BOSS RIG. + \$25/MAN OBM
2250-65		\$ 21,699	ROLFSON OIL	7203GAL @ 2.995/GAL + TAXES #2104009
2250-70	CORVA	\$ 258	CORVA	CORVA DAILY COSTS
2250-70	HOUSING	\$ 515	CIVEO	CAMP HOUSING. X5, TRANSFORMER
2250-70	INTERNET, PHONES, COM'S	\$ 140	INFRASTRUCTURE NETWORKS	INTERNET, PHONES, COM'S
2250-70	PASON	\$ 55	PASON	PASON COMPUTER
2250-70	WATER FLEET DAILY RENTAL.	\$ 560	WATERFLEET	WATER FLEET DAILY
2250-70	WELLDRIVE	\$ 50	WELLDRIVE	WELLDRIVE
2250-80	DRILLING ADVISOR	\$ 80	FOCUSED DRILLING & COMPLETIONS LLC	DRILLING ADVISOR
2250-80	WELLSITE SURVISOR ELWYN EVANS	\$ 2,000	OIL CITY DRILLING SERVICES, LLC	WELLSITE SUPERVISION
2250-80	WELLSITE SURVISOR MICHAEL MCCARTY	\$ 2,000	WORKRISE	WELLSITE SUPERVISION
2250-90	4 1/2" CET 43 DRILL PIPE EQUIPMENT	\$ 7,922	CASEY EQUIPMENT, LTD	MISC EQUIPMENT FOR 4.5" DP # 15663
2250-90	4 1/2" CET 43 DRILL PIPE RENTAL	\$ 2,239	CASEY EQUIPMENT, LTD	2417.95
2250-95	B.O.P POLLUTION CONTAINMENT	\$ 50	JOHNSON SPECIALTY TOOLS (JST)	BOP POLLUTION CONTAINMENT
2250-95	BOP SPOOL	\$ 44	MONAHANS NIPPLE-UP SERVICE	22" B.O.P SPOOL.
2250-95	CHOKES AND FLARE LINE	\$ 742	IRON HORSE TOOLS, INC.	CHOKES AND FLARE LINE
2250-95	FORKLIFT, MANLIFT, LIGHT TOWERS	\$ 578	SKEWL ENERGY SERVICES	FORKLIFT, MANLIFT, LIGHT TOWERS, TRASH TRAILER
2250-95	GENERATOR, PUMP, AND POLYLINE	\$ 169	JACK MILLSAP COMPANY, INC.	GENERATOR, PUMP, AND POLYLINE
2250-95	H2S MONITORING SYSTEM	\$ 81	CANON SAFETY SERVICES	H2S MONITORING
2250-95	INLINE MUD SCREEN	\$ 75	BLACK DIAMOND	INLINE MUD SCREEN
2250-95	MUD VAC & DIESEL SCREEN WASHER	\$ 121	EAST TEXAS SUPPLY	MUD VAC & DIESEL WASHER
2250-95	PREMIX,DRIVE OVER, MANIFOLD DIESEL PU	\$ 1,199	SKEWL ENERGY SERVICES	PREMIX,DRIVE OVER, MANIFOLD DIESEL PUMP, TANK FARM
2250-95	PRESSURE WASHER	\$ 55	JOHNSON SPECIALTY TOOLS (JST)	PRESSURE WASHER WITH HEATER
2250-95	PVT & RIG MONITORING	\$ 792	NOV	TOTCO PVT & RIG MONITORING
2250-95	RIG UP AND INSTALL B.O.P POLLUTION PAN	\$ 500	JOHNSON SPECIALTY TOOLS (JST)	RIG UP AND INSTALL POLLUTION PAN
2250-95	RIG UP PRESSURE WASHER	\$ 350	JOHNSON SPECIALTY TOOLS (JST)	RIG UP PRESSURE WASHER
2250-95	ROCKIT	\$ 492	NABORS DRILLING SOLUTIONS	ROCKIT DAILY RENTAL
2250-95	ROTATING HEAD	\$ 530	ADS	MED PSI ROTATING HEAD
2250-95	STAGE 3	\$ 2,385	STAGE 3 SEPARATION	CENTRIFUGE, SHAKERS, HOG TROUGH, HAND
2250-115	DIRECTIONAL COST	\$ 6,450	TALLY DRILLING SERVICES	
2250-125	DRILLING MUD CHEMICALS & PERSONAL	\$ 12,304	AES DRILLING FLUIDS INC	DRILLING MUD CHEM'S & PERSONAL.
Total:		\$ 82,760		

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	06:30	6.5				ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION CURVE F/ 11,252' - T/ 11,543' (291' @ 44.7 FPH) WOB: 8-28K, GPM: 250-325, PPSI: 3,330, DIFF: 150-700 PSI, UTILIZING ROCKET SYSTEM @ 4.5 & 4.5 WRAPS WITH 4,800 FT/LBS OF RECIPROCATING SWING TORQUE, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100% SHALE, TRACE LIMESTONE, BG GAS: 13-85U, CONN GAS: 29-54U, MUD WEIGHT IN/OUT 12.0 PPG. 12.98 CALCULATED ECD WITH NO LOSSES.
						SLIDE F/ 11,266' -T/ 11,297' (31' @ 37.3 FPH) 18K WOB, 200-600 DIFF, 325 GPM, TF-40R SLIDE F/ 11,315' -T/ 11,346' (31' @ 36 FPH) 20K WOB, 400-650 DIFF, 325 GPM, TF-20L SLIDE F/ 11,366' -T/ 11,391' (25' @ 75 FPH) 22K WOB, 400-680 DIFF, 325 GPM, TF-20L SLIDE F/ 11,414' -T/ 11,439' (25' @ 51 FPH) 25K WOB, 385-800 DIFF, 325 GPM, TF-20R SLIDE F/ 11,459' -T/ 11,484' (25' @ 31 FPH) 20K WOB, 400-580 DIFF, 325 GPM, TF-20R SLIDE F/ 11,509' -T/ 11,533' (24' @ 31 FPH) 20K WOB, 400-700 DIFF, 325 GPM, TF-20R
06:30	17:00	10.5	PRODUCTION DRILLING	DRILLING		ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION CURVE F/ 11,543' - T/ 11,979' (436' @ 41.5 FPH) WOB: 10-30K, GPM: 325, PPSI: 4,430, DIFF: 150-1300 PSI, UTILIZING ROCKET SYSTEM @ 4.5 & 4.5 WRAPS WITH 4,800 FT/LBS OF RECIPROCATING SWING TORQUE, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90% SHALE, 10% LIMESTONE, BG GAS: 13-85U, CONN GAS: 29-54U, MUD WEIGHT IN/OUT 12.0 PPG. 12.98-13.00PPG CALCULATED ECD WITH NO LOSSES.
						**CURVE LANDED @ 11,778' PROJECTING 90.3 DEG TO BIT, 19.3' BELOW INITIAL TARGET LINE @ 11,358' TVD.
						SLIDE F/ 11,543' -T/ 11,594' (51' @ 29 FPH) 20K WOB, 200-380 DIFF, 325 GPM, TF- 20R SLIDE F/ 11,598' -T/ 11,778' (180' @ 42.3 FPH) 20K WOB, 200-380 DIFF, 325 GPM, TF- 10R LANDED CURVE 11,778' 88.5DEG SLIDE F/ 11,959' -T/ 11,979' (20' @ 25 FPH) 20K WOB, 300-460 DIFF, 325 GPM, TF- 150L
17:00	17:30	0.5	PRODUCTION DRILLING	RIG SERVICE		RIG SERVICE / SERVICE TOP DRIVE.
17:30	23:00	5.5				ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION CURVE F/ 11,979' - T/ 12,373' (394' @ 71.6 FPH) WOB: 20-30K, GPM: 325, PPSI: 4,200, DIFF: 650-1250 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 70% SHALE / 30% LIMESTONE, BG GAS: 146U, CONN GAS: 140U, MUD WEIGHT 12.0 IN/OUT W/56 VIS, 13.06 PPG CALCULATED ECD WITH NO LOSSES. RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS.
						SLIDE F/ 12,020' -T/ 12,040' (20' @ 25 FPH) 34K WOB, 380-560 DIFF, 350 GPM, TF- 160L SLIDE F/ 12,103' -T/ 12,115' (12' @ 15 FPH) 26K WOB, 280-400 DIFF, 325 GPM, TF- 160L SLIDE F/ 12,290' -T/ 12,300' (10' @ 15 FPH) 26K WOB, 280-400 DIFF, 325 GPM, TF- 160L
23:00	00:00	1.0	PRODUCTION DRILLING	COND MUD & CIRC		RE CYCLE FOR SURVEY ON BOTTOM, FLOW CHECK WELL (WELL STATIC), ROTATE & RECIPROCATATE F/ 12,295' - T/ 12,373' @ 120 FPM, GPM: 400, PPSI: 4000, RPM: 50, TORQUE: 5-9K FT/LBS, CONDITION AND CIRCULATE BOTTOMS UP PRIOR TO TRIPPING.

TOTAL HRS		24.0				



DAILY DRILLING REPORT

RPT DATE: 10/24/2021

RPT NUM.: 23

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/8/2021
MD/TVD: 13373 FT/11352 FT
PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE AHEAD
ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS: 14.8
24 HR FTG: 999

RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 53
HRS DRLG: 6

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/24/2021	10/25/2021	None	TRIPPING OUT OF HOLE / CHANGING BHA / TRIPPING IN HOLE

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021
83 MILE RIG MOVE
138 HOUR (6.75 DAYS) RIG MOVE
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00
14.5 HR WALK (.6 DAYS)
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

0000 – 0600 : 0000 – 0600 : ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION CURVE F/ 12,978' - T/ 12,410' (432' @ 72 FPH) WOB: 20-28K, GPM: 350, PPSI: 5,300, DIFF: 650-1250 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 70% SHALE / 10% LIMESTONE, BG GAS: 30-50U, CONN GAS: 180U, MUD WEIGHT 12.0 IN/OUT W/58 VIS, 12.84 PPG CALCULATED ECD WITH NO LOSSES. RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS.

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)
NO ACCIDENTS, INCIDENTS, OR SPILLS
RIG DOWNTIME 0.5 HRS (6.5 HRS TOTAL)
NPT: 0.0 HRS (26 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250 DAILY DRILL COST: \$114,720 CUM DRILL COST: \$2,011,011 CUM MUD COST: \$123,358 CUM WELL COST: \$2,011,011

BOP

LAST BOP TEST: 10/21/21 LAST BOP DRILL: 10/25/21 NEXT BOP TEST: 11/11/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80		

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
20:00	12.0	46.0			2	7	8	10	19	10	41,000			77.00	6.40	11.00

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	ULTERRA	RPS613	57408	4x18, 2x16	1.387	N	12,373	12,798	425	5.9	20	284	72.6
5	6.75	ULTERRA	U611S	57762	6x15	1.035	N	11,252	12,374	1,122	21.3	30	264	52.7

BIT NO. 5 INNER: 6 OUTER: 2 DULL: BT LOC: N SEAL: X GAUGE: 0 OTHER: CT RP: BHA

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	112	5250	347	.00165	95	12.84	253	417	14	1485
2	WEATHERFORD	EQ-2200	5.000	12.000			0	.00165	95	0			0	0

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Ultrerra RPS613 PDC Bit	6.75		1	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.83deg Fxd. SSS14	5	2	27.93	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.38	9	Monel Collar-5" NM Flex DC	4.75	2.688	29.24
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	2.95	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	189.27
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL
LENGTH: 6,047.49
ROT. WT.: 190,000

BHA WT. AIR: 10,030
P.U. WT.: 220,000

BHA WT. MUD: 8,225
S.O. WT.: 174,000

HRS. ON JARS:
TORQUE: 13,100

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
12,309	90.86	257.83	11,354		-837.8	-1,087.2	1,273.9	5.2
12,366	92.48	259.85	11,352		-848.9	-1,143.1	1,330.7	4.5
12,461	92.88	258.36	11,348		-866.8	-1,236.3	1,425.3	1.6
12,555	93.93	255.63	11,342		-887.9	-1,327.7	1,519.0	3.1
12,650	91.43	251.68	11,338		-914.6	-1,418.8	1,613.9	4.9
12,744	89.05	252.73	11,337		-943.3	-1,508.3	1,707.8	2.8
12,838	90.37	254.49	11,338		-969.9	-1,598.4	1,801.8	2.3
12,932	91.52	256.34	11,336		-993.5	-1,689.4	1,895.7	2.3

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		545	10,649

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRC	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199

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DAILY DRILLING REPORT

RPT DATE:
RPT NUM.:
RIG:

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/8/2021
MD/TVD: 13373 FT/11352 FT
PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE AHEAD
ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS: 14.8
24 HR FTG: 999

RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 53
HRS DRLG: 6

COST BREAKDOWN

Code	Description	Daily Cost	Vendor	Remarks
2250-40		\$ 18,325	UNIT DRILLING	DAILY RIG COST FOR UNIT BOSS RIG. + \$25/MAN OBM
2250-70	CORVA	\$ 258	CORVA	CORVA DAILY COSTS
2250-70	HOUSING	\$ 515	CIVEO	CAMP HOUSING. X5, TRANSFORMER
2250-70	INTERNET, PHONES, COM'S	\$ 140	INFRASTRUCTURE NETWORKS	INTERNET, PHONES, COM'S
2250-70	PASON	\$ 55	PASON	PASON COMPUTER
2250-70	WATER FLEET DAILY RENTAL.	\$ 560	WATERFLEET	WATER FLEET DAILY
2250-70	WELLDRIIVE	\$ 50	WELLDRIIVE	WELLDRIIVE
2250-75	x2 TRUCKS TO DELIVER HWDP	\$ 1,400	TO A TEE	x2 TRUCKS TO DELIVER 4.5" HWDP INV.# 010053
2250-80	DRILLING ADVISOR	\$ 80	FOCUSED DRILLING & COMPLETIONS LLC	DRILLING ADVISOR
2250-80	WELLSITE SURVISOR ELWYN EVANS	\$ 2,000	OIL CITY DRILLING SERVICES, LLC	WELLSITE SUPERVISION
2250-80	WELLSITE SURVISOR MICHAEL MCCARTY	\$ 2,000	WORKRISE	WELLSITE SUPERVISION
2250-90	4 1/2" CET 43 DRILL PIPE RENTAL	\$ 2,418	CASEY EQUIPMENT, LTD	4.5" CET43 DRILL PIPE DAILY RENTAL W/ TAX
2250-90	ACTIPULSE FRICTION BREAKING AGGITATO	\$ 17,531	IMPULSE DOWNHOLE TOOLS	ACTIPULSE TOOL TOTAL WELL COST
2250-90	DOG LEG REAMER DAILY FOOTAGE CHARG	\$ 2	DRILLING TOOLS INTERNATIONAL (DTI)	DLR COST @ \$1.50 / FT, \$6K MIN/\$12K MAX
2250-90	POWER PULSE FRICTION BREAKING AGGITATO	\$ 17,531	IMPULSE DOWNHOLE TOOLS	POWER PULSE TOOL TOTAL WELL COST
2250-95	B.O.P POLLUTION CONTAINMENT	\$ 50	JOHNSON SPECIALTY TOOLS (JST)	BOP POLLUTION CONTAINMENT
2250-95	BOP SPOOL	\$ 44	MONAHANS NIPPLE-UP SERVICE	22" B.O.P SPOOL.
2250-95	CHOKES AND FLARE LINE	\$ 742	IRON HORSE TOOLS, INC.	CHOKES AND FLARE LINE
2250-95	FORKLIFT, MANLIFT, LIGHT TOWERS	\$ 578	SKEWL ENERGY SERVICES	FORKLIFT, MANLIFT, LIGHT TOWERS, TRASH TRAILER
2250-95	GENERATOR, PUMP, AND POLYLINE	\$ 169	JACK MILLSAP COMPANY, INC.	GENERATOR, PUMP, AND POLYLINE
2250-95	H2S MONITORING SYSTEM	\$ 81	CANON SAFETY SERVICES	H2S MONITORING
2250-95	INLINE MUD SCREEN	\$ 75	BLACK DIAMOND	INLINE MUD SCREEN
2250-95	MUD VAC & DIESEL SCREEN WASHER	\$ 121	EAST TEXAS SUPPLY	MUD VAC & DIESEL WASHER
2250-95	PREMIX,DRIVE OVER, MANIFOLD DIESEL PU	\$ 1,199	SKEWL ENERGY SERVICES	PREMIX,DRIVE OVER, MANIFOLD DIESEL PUMP, TANK FARM
2250-95	PRESSURE WASHER	\$ 55	JOHNSON SPECIALTY TOOLS (JST)	PRESSURE WASHER WITH HEATER
2250-95	PVT & RIG MONITORING	\$ 792	NOV	TOTCO PVT & RIG MONITORING
2250-95	ROCKIT	\$ 492	NABORS DRILLING SOLUTIONS	ROCKIT DAILY RENTAL
2250-95	ROTATING HEAD	\$ 530	ADS	MED PSI ROTATING HEAD
2250-95	STAGE 3	\$ 2,385	STAGE 3 SEPARATION	CENTRIFUGE, SHAKERS, HOG TROUGH, HAND
2250-100	6 3/4" ULTERRA RPS613 SN#57408	\$ 10,971	ULTERRA DRILLING TECHNOLOGIES LP	6 3/4" ULTERRA RPS613 SN#57408 BIT#6
2250-115	DIRECTIONAL COST	\$ 20,250	TALLY DRILLING SERVICES	DAILY DIRECTIONAL COST.
Total:		\$ 101,399		

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	03:00	3.0				TRIP OUT OF HOLE FOR LATERAL BHA ASSEMBLY F/ 12,373' - T/ 4,900' MONITORING DISP T/F TRIP TANK WELL TAKING CORRECT DISP. TOTAL FOOTAGE PULLED: 7,473', AVG PULLED PER HR: 2,491 FT/HR. **SAFETY MEETING & JSA WITH ALL UNIT PERSONAL OVER TRIPPING OUT OF HOLE WITH TM120 AND ELIMINATING POTENTIAL EXPOSURES.
			PRODUCTION DRILLING	TRIPS		
03:00	03:30	0.5	PRODUCTION DRILLING	OTHER		PULL ROTATING HEAD & INSTALL TRIP NIPPLE / FLOW CHECK WELL AT 4900' (WELL STATIC)
03:30	05:00	1.5				TRIP OUT OF HOLE FOR LATERAL BHA ASSEMBLY F/ 4,900' - T/ 180' BHA MONITORING DISP T/F TRIP TANK WELL TAKING CORRECT DISP. TOTAL FOOTAGE PULLED: 4,720', AVG PULLED PER HR: 3,147 FT/HR.
			PRODUCTION DRILLING	TRIPS		
05:00	06:00	1.0				LAY DOWN 6 3/4" CURVE BHA #5 AS FOLLOWS: ULTERRA U6115, 6X15 JETS, 1.035 TFA, SN-57762, 5" MOTOR 6/7 8.0STG FIXED SET AT 2.12DEG 0.81REV/GAL, MAX TQ 3,810, MAX DIFF 1200, BIT TO BEND 4.45, KICK PAD OD 5.25", 1-5"NMPC, 5" UBHO SUB, 3-5"NMDC, 1-5"NM FLEX DC, 5.75" XO BIT GRADE: 6-2-BT-C-X-0-CT-BHA **JSA & SAFETY MEETING WITH PREMIER, COMP REP AND ALL UNIT DRILLING PERSONAL OVER LAYING DOWN DIRECTIONAL TOOLS & JOB STEPS FOCUSING ON ELIMINATING POTENTIAL EXPOSURES.
			PRODUCTION DRILLING	DIR WORK		
06:00	08:30	2.5				P/U & M/U 6 3/4" LATERAL BHA #6 AS FOLLOWS: ULTERRA RPS613, 4X18 2X16 JETS, 1.39 TFA, SN-57408, 5.25" MOTOR 6/7 8.0STG FIXED SET AT 1.83DEG 0.81REV/GAL, MAX TQ 7,632, MAX DIFF 2400, BIT TO BEND 3.9", KICK PAD OD 5.31", 5" TANDEM FLOAT SUB, 1-5" NMPC, 5" UBHO SUB, 3-5" NMDC, 1-5" NM FLEX DC, 5.75" XO, 2 STANDS DP, DRILL AND REAM, 23 STANDS DP, 5" POWER PULSE AGITATOR, SN-IFT-525-004 (2555' BACK), 37 STANDS DP, 5" ACTIVE PULSE AGITATOR, SN IFT-525-092 (6047' BACK) TEST MWD @ 200 GPM W/ 1200 PSI (GOOD TEST) **SAFETY MEETING & JSA OVER P/U BHA WITH ALL UNIT, PREMIER DIRECTIONAL, COMP REP .
			PRODUCTION DRILLING	DIR WORK		
08:30	12:00	3.5				T.I.H W/ PRODUCTION LATERAL BHA #6 F/ 123' - T/ 6,050' MONITORING DISP @ SYSTEM CORRECT DISP. P/U ACTIPULSE FRICTION BREAKING AGITATOR,.
			PRODUCTION DRILLING	TRIPS		
12:00	12:30	0.5	PRODUCTION DRILLING	OTHER		REMOVE TRIP NIPPLE AND INSTALL ROTATING HEAD.
12:30	15:30	3.0	PRODUCTION DRILLING	TRIPS		CONTINUE TRIPPING IN HOLE F/ 6,050' - T/ 10,840' MONITORING DISP @ SYSTEM CORRECT DISP.
15:30	16:00	0.5	PRODUCTION DRILLING	RIG SERVICE		RIG SERVICE / SERVICE TOP DRIVE RLA
16:00	16:30	0.5	PRODUCTION DRILLING	REPAIR RIG	RIG REPAIR	REPAIR RLA GEARING ACTUATOR, RE ADJUST AND TORQUE.
16:30	17:30	1.0	PRODUCTION DRILLING	TRIPS		CONTINUE TRIPPING IN HOLE F/ 10,840' - T/ 12,294' MONITORING DISP @ SYSTEM CORRECT DISP.
17:30	18:00	0.5				RE LOG FOR TIE BACK IN CORRELATING GAMMA OVERLAY F/ 12,694' - T/ 12,734' @ 150 FPH, GPM: 400, PPSI: 4500 PSI, RPM: 50, TORQUE: 6000 FT/LBS
			PRODUCTION DRILLING	DIR WORK		



DAILY DRILLING REPORT

RPT DATE: 10/25/2021

RPT NUM.: 24

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/8/2021
MD/TVD: 15018 FT/11340 FT
PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE AHEAD
ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS: 15.8
24 HR FTG: 1645

RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 54
HRS DRLG: 23

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/20/2021	10/21/2021	None	LAYING DOWN STANDS OUT OF DERRICK, CONNECTIONS,

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021
83 MILE RIG MOVE
138 HOUR (6.75 DAYS) RIG MOVE
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00
14.5 HR WALK (.6 DAYS)
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

0000 – 0600 : ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION CURVE F/ 15,018' - T/ 15,440' (422 @ 70.33 FPH) WOB: 20-25K, GPM: 350, PPSI: 4800-5,800, DIFF: 650-1250 PSI, RPM'S: 60-90, TORQUE ON: 13-15400 FT/LBS OFF: 5,000-7,000 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90%-100 SHALE / 10-0% LIMESTONE, BG GAS: 450U, CONN GAS: 1750U, MUD WEIGHT 12.0 IN/OUT W/59 VIS, 13.67 PPG CALCULATED ECD WITH NO LOSSES. RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS.

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)
NO ACCIDENTS, INCIDENTS, OR SPILLS
RIG DOWNTIME 0.5 HRS (7.0 HRS TOTAL)
NPT: 0.0 HRS (26 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250 DAILY DRILL COST: \$59,074 CUM DRILL COST: \$2,109,668 CUM MUD COST: \$137,538 CUM WELL COST: \$2,109,668

BOP

LAST BOP TEST: 10/21/21 LAST BOP DRILL: 10/24/21 NEXT BOP TEST: 11/11/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	12.0	55.0			2	7	9	10	18	10	38,000			78.00	4.70	10.00

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	ULTERRA	RPS613	57408	4x18, 2x16	1.387	N	12,798	15,018	2,220	21.1	25	284	105.5
5	6.75	ULTERRA	U6115	57762	6x15	1.035	N	11,252	12,374	1,122	21.3	30	264	52.7

BIT NO. 5 INNER: 6 OUTER: 2 DULL: BT LOC: N SEAL: X GAUGE: 0 OTHER: CT RP: BHA

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	112	2800	347	.00165	95	13.64	338	417	14	1361
2	WEATHERFORD	EQ-2200	5.000	12.000			0	.00165	95	0			0	0

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Ulterra RPS613 PDC Bit	6.75		1	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.83deg Fxd. S5514	5	2	27.93	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.38	9	Monel Collar-5" NM Flex DC	4.75	2.688	29.24
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	2.95	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	189.27
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,047.49

ROT. WT.: 182,000

BHA WT. AIR: 10,003

P.U. WT.: 245,000

BHA WT. MUD: 8,250

S.O. WT.: 135,000

HRS. ON JARS:

TORQUE: 14,500

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
14,245	92.04	256.16	11,351	-1,418.2	-2,929.2	3,204.3	3.9	
14,340	87.74	257.39	11,351	-1,439.9	-3,021.7	3,299.2	4.7	
14,432	91.74	260.12	11,352	-1,457.9	-3,111.9	3,390.9	5.3	
14,526	87.38	259.50	11,352	-1,474.5	-3,204.4	3,484.4	4.7	
14,619	91.87	260.73	11,353	-1,490.4	-3,296.0	3,576.9	5.0	
14,713	92.09	262.05	11,350	-1,504.5	-3,388.8	3,670.1	1.4	
14,808	90.46	260.82	11,348	-1,518.6	-3,482.8	3,764.3	2.2	
14,902	90.68	259.85	11,347	-1,534.4	-3,575.4	3,857.8	1.1	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,605	8,044

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRCU	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199

[illegible]



DAILY DRILLING REPORT

RPT DATE: 10/26/2021

RPT NUM.: 25

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC005

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/8/2021

MD/TVD: 15959 FT/11321 FT

PRESENT OPERATIONS: BACKREAMING OUT OF THE HOLE

ACTIVITY PLANNED: CONTINUE OUT OF THE HOLE, L/D MOTOR AND BIT, P/U NEW, TRIP IN, DRILL 6.75" LATERAL AHEAD

JOB: DRILLING

LEASE: UL JEFF EAST A 17-27-5 WA

API #: 32475381390000

ELEVATION: 2681

DFS: 16.8

24 HR FTG: 941

RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 55

HRS DRLG: 20.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/25/2021	10/26/2021	None	LAYING DOWN STANDS OUT OF DERRICK, CONNECTIONS,

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021

83 MILE RIG MOVE

138 HOUR (6.75 DAYS) RIG MOVE

SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00

14.5 HR WALK (.6 DAYS)

SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021

TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021

RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21

PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21

RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021

PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

0000 – 0600 : FLOW CHECK, PREPARE TO TRIP, FLOW CHECK GOOD, PUMP SLUG, PULL 2 STANDS, PULLING TIGHT (100KLS OVER), SCREW IN BEGIN BACKREAMING, BACKREAM 3 STANDS, TRY PULLING WITH NO PUMPS / ROTARY, STILL PULLING TIGHT, CONTINUE BACKREAMING 3 STANDS AT A TIME

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0.5 HRS (7.0 HRS TOTAL)

NPT: 0.0 HRS (26 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$66,334	CUM DRILL COST: \$2,176,002	CUM MUD COST: \$147,788	CUM WELL COST: \$2,176,002
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BOP

LAST BOP TEST:	10/21/21	LAST BOP DRILL:	10/24/21	NEXT BOP TEST:	11/11/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)				PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	12.0	61.0			2	8	10	12	18	13	39,500						78.00	6.70	8.00

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	ULTERRA	RPS613	57408	4x18, 2x16	1.387	N	12,798	15,018	2,220	21.1	25	284	105.5
5	6.75	ULTERRA	U611S	57762	6x15	1.035	N	11,252	12,374	1,122	21.3	30	264	52.7

BIT NO. 5 INNER: 6 OUTER: 2 DULL: BT LOC: N SEAL: X GAUGE: 0 OTHER: CT RP: BHA

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	56	5050	347	.00165	95	13.71	338	417	14	680
2	WEATHERFORD	EQ-2200	5.000	12.000	56	5050	0	.00165	95	13.71	338	417	14	380

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Ulterra RPS613 PDC Bit	6.75		1	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.83deg Fxd. SSS14	5	2	27.93	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.38	9	Monel Collar-5" NM Flex DC	4.75	2.688	29.24
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	2.95	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	189.27
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,047.49

ROT. WT.: 18,500

BHA WT. AIR: 10,003

P.U. WT.: 253,000

BHA WT. MUD: 8,250

S.O. WT.: 135,000

HRS. ON JARS:

TORQUE: 14,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
15,275	92.53	260.38	11,332		-1,605.7	-3,941.2	4,229.1	2.1
15,370	89.80	264.77	11,330		-1,618.0	-4,035.3	4,323.1	5.4
15,464	90.02	267.68	11,330		-1,624.2	-4,129.1	4,415.0	3.1
15,558	90.42	271.89	11,330		-1,624.5	-4,223.1	4,505.6	4.5
15,653	93.36	274.88	11,326		-1,618.9	-4,317.9	4,595.3	4.4
15,747	91.91	274.27	11,322		-1,611.4	-4,411.5	4,683.3	1.7
15,842	88.97	267.31	11,321		-1,610.1	-4,506.4	4,774.3	8.0
15,911	88.97	267.31	11,323		-1,613.3	-4,575.3	4,841.5	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		3,478	4,566

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRCU	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199



DAILY DRILLING REPORT

RPT DATE:

RPT NUM.:

RIG:

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC005

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/8/2021

MD/TVD: 15959 FT/11321 FT

PRESENT OPERATIONS: BACKREAMING OUT OF THE HOLE

ACTIVITY PLANNED: CONTINUE OUT OF THE HOLE, L/D MOTOR AND BIT, P/U NEW, TRIP IN, DRILL 6.75" LATERAL AHEAD

JOB: DRILLING

LEASE: UL JEFF EAST A 17-27-5 WA

API #: 32475381390000

ELEVATION: 2681

DFS: 16.8

24 HR FTG: 941

RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 55

HRS DRLG: 20.5

COST BREAKDOWN

Code	Description	Daily Cost	Vendor	Remarks
2250-40		\$ 18,325	UNIT DRILLING	DAILY RIG COST FOR UNIT BOSS RIG. + \$25/MAN OBM
2250-70	CORVA	\$ 258	CORVA	CORVA DAILY COSTS
2250-70	HOUSING	\$ 515	CIVEO	CAMP HOUSING. X5, TRANSFORMER
2250-70	INTERNET, PHONES, COM'S	\$ 140	INFRASTRUCTURE NETWORKS	INTERNET, PHONES, COM'S
2250-70	PASON	\$ 55	PASON	PASON COMPUTER
2250-70	WATER FLEET DAILY RENTAL.	\$ 560	WATERFLEET	WATER FLEET DAILY
2250-70	WELLDRIIVE	\$ 50	WELLDRIIVE	WELLDRIIVE
2250-80	DRILLING ADVISOR	\$ 80	FOCUSED DRILLING & COMPLETIONS LLC	DRILLING ADVISOR
2250-80	WELLSITE SURVISOR ELWYN EVANS	\$ 2,000	OIL CITY DRILLING SERVICES, LLC	WELLSITE SUPERVISION
2250-80	WELLSITE SURVISOR MICHAEL MCCARTY	\$ 2,000	WORKRISE	WELLSITE SUPERVISION
2250-90	4 1/2" CET 43 DRILL PIPE RENTAL	\$ 2,418	CASEY EQUIPMENT, LTD	4.5" CET43 DRILL PIPE DAILY RENTAL W/ TAX
2250-90	DOG LEG REAMER DAILY FOOTAGE CHARG	\$ 2	DRILLING TOOLS INTERNATIONAL (DTI)	DLR COST @ \$1.50 / FT, \$6K MIN/\$12K MAX
2250-95	B.O.P POLLUTION CONTAINMENT	\$ 50	JOHNSON SPECIALTY TOOLS (JST)	BOP POLLUTION CONTAINMENT
2250-95	BOP SPOOL	\$ 44	MONAHANS NIPPLE-UP SERVICE	22" B.O.P SPOOL.
2250-95	CHOKES AND FLARE LINE	\$ 742	IRON HORSE TOOLS, INC.	CHOKES AND FLARE LINE
2250-95	FORKLIFT, MANLIFT, LIGHT TOWERS	\$ 578	SKEWL ENERGY SERVICES	FORKLIFT, MANLIFT, LIGHT TOWERS, TRASH TRAILER
2250-95	GENERATOR, PUMP, AND POLYLINE	\$ 169	JACK MILLSAP COMPANY, INC.	GENERATOR, PUMP, AND POLYLINE
2250-95	H2S MONITORING SYSTEM	\$ 81	CANON SAFETY SERVICES	H2S MONITORING
2250-95	INLINE MUD SCREEN	\$ 75	BLACK DIAMOND	INLINE MUD SCREEN
2250-95	MUD VAC & DIESEL SCREEN WASHER	\$ 121	EAST TEXAS SUPPLY	MUD VAC & DIESEL WASHER
2250-95	PREMIX,DRIVE OVER, MANIFOLD DIESEL PU	\$ 1,199	SKEWL ENERGY SERVICES	PREMIX,DRIVE OVER, MANIFOLD DIESEL PUMP, TANK FARM
2250-95	PRESSURE WASHER	\$ 55	JOHNSON SPECIALTY TOOLS (JST)	PRESSURE WASHER WITH HEATER
2250-95	PVT & RIG MONITORING	\$ 792	NOV	TOTCO PVT & RIG MONITORING
2250-95	ROCKIT	\$ 492	NABORS DRILLING SOLUTIONS	ROCKIT DAILY RENTAL
2250-95	ROTATING HEAD	\$ 530	ADS	MED PSI ROTATING HEAD
2250-95	STAGE 3	\$ 2,385	STAGE 3 SEPARATION	CENTRIFUGE, SHAKERS, HOG TROUGH, HAND
2250-100	BITS	\$ 10,326	ULTERRA DRILLING TECHNOLOGIES LP	ULTERRA U611S 5N57762 #AMC44189088564
2250-105	CLEAN & DRIFT 7 5/8" CASING	\$ 3,159	4 STAR USA	CLEAN AND DRIFT 5.5" PRODUCTION CASING
2250-115	DIRECTIONAL COST	\$ 7,484	TALLY DRILLING SERVICES	DAILY DIRECTIONAL COST.
2250-125	DRILLING MUD CHEMICALS & PERSONAL	\$ 4,618	AES DRILLING FLUIDS INC	DRILLING MUD CHEM'S & PERSONAL.
2250-125	MUD DIESEL	\$ 5,632	AES DRILLING FLUIDS INC	1890GAL @ 2.98/GAL
Total:		\$ 64,934		

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	11:30	11.5				ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION CURVE F/ 15,018' - T/ 15,722' (704' @ 64 FPH) WOB: 20-25K, GPM: 350, PPSI: 4800-5,800, DIFF: 650-1250 PSI, RPM'S: 60-90, TORQUE ON: 13-15400 FT/LBS OFF: 5,000-7,000 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90%-100 SHALE / 10-0% LIMESTONE, BG GAS: 450U, CONN GAS: 1750U, MUD WEIGHT 12.0 IN/OUT W/59 VIS, 13.67 PPG CALCULATED ECD WITH NO LOSSES. RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS.
			PRODUCTION DRILLING	DRILLING		SLIDE F/ 15,168' -T/ 15,180' (12' @ 40 FPH) 30-39K WOB, 150-400 DIFF, 350 GPM, TF- 110R SLIDE F/ 15,261' -T/ 15,283' (22' @ 29 FPH) 34K WOB, 150-450 DIFF, 350 GPM, TF- 130R
11:30	12:30	1.0	PRODUCTION DRILLING	OTHER	EQUIPMENT FAILURE (NON RIG)	ROTATING HEAD LEAKING ATTEMPTED TO PULL ROTATING HEAD AND CHANGE OUT, ROTATING HEAD WOULD NOT UNSEAT FROM BOWL, ATTEMPTED PULLING HEAD WITH WENCHES, TROUBLESHOOT ROTATING HEAD. CALLED ADS AND SERVICE REP IN ROUTE.
12:30	14:00	1.5				ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION CURVE F/ 15,722' - T/ 15,818' (96' @ 64 FPH) WOB: 20-25K, GPM: 350, PPSI: 4800-5,800, DIFF: 650-1250 PSI, RPM'S: 60-90, TORQUE ON: 13-15400 FT/LBS OFF: 5,000-7,000 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90%-100 SHALE / 10-0% LIMESTONE, BG GAS: 450U, CONN GAS: 1750U, MUD WEIGHT 12.0 IN/OUT W/59 VIS, 13.67 PPG CALCULATED ECD WITH NO LOSSES. RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS.
			PRODUCTION DRILLING	DRILLING		SLIDE F/ 15,722' -T/ 15,737' (15' @ 30 FPH) 26K WOB, 150-470 DIFF, 350 GPM, TF- 130L
14:00	16:30	2.5				CONTINUE ATTEMPTING TO PULL SEATED ROTATING HEAD FROM BOWL WITH ADS FIELD TECH, INSTALL NEW PULL ANCHORS, PULL WITH BOTH WINCH LINES NO SUCCESS, OPEN CLAMP COMPLETELY AND INSPECT BEARING ASSEMBLY, MAKE UP 4 1/2 CET43 x 4 1/2 IF BOX X/O INTO 4 1/2" IF PIN x CET 43 BOX AND MAKE UP INTO DRILL STRING, PUSHED LARGER OD THROUGH HEAD AND RECIPROCATATE INSTALL BOTH WENCHES ON ROTATING HEAD AND PULL UP, HAMMER HEAD LOOSE, STRIP OFF ROTATING HEAD AND BEARING ASSEMBLY, INSTALL NEW ROTATING HEAD AND RE INSTALL CLAMP, SEND IN PULLED BEARING WITH ADS FIELD TECH FOR INSPECTION.
16:30	00:00	7.5	PRODUCTION DRILLING	OTHER	EQUIPMENT FAILURE (NON RIG)	ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION CURVE F/ 15,818' - T/ 15,959' (141' @ 18.8FPH) WOB: 20-30K, GPM: 350, PPSI: 4800-5,100, DIFF: 200-450 PSI, RPM'S: 60-90, TORQUE ON: 13-15400 FT/LBS OFF: 5,000-7,000 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100 SHALE / TR LIMESTONE, BG GAS: 200U, CONN GAS: 550U, MUD WEIGHT 12.0 IN/OUT W/59 VIS, 13.71 PPG CALCULATED ECD WITH NO LOSSES. RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS.
			PRODUCTION DRILLING	DRILLING		SLIDE F/ 15,818' -T/ 15,826' (8' @ 30 FPH) 35K WOB, 150-350 DIFF, 350 GPM, TF- 180L SLIDE F/ 15,909' -T/ 15,936' (27' @ 14 FPH) 41K WOB, 150-500 DIFF, 350 GPM, TF- 90R SLIDE F/ 15,956' -T/ 15,959' (3' @ 140FPH) 39K WOB, 150-300 DIFF, 350 GPM, TF- 90R



DAILY DRILLING REPORT

RPT DATE: 10/27/2021

RPT NUM.: 26

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/8/2021
MD/TVD: 15959 FT/11322 FT
PRESENT OPERATIONS: TRIPPING IN THE HOLE
ACTIVITY PLANNED: COMPLETE TRIP IN HOLE, DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS: 17.8
24 HR FTG:

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 56
HRS DRLG:

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/26/2021	10/27/2021	None	TRIPPING IN WINDY CONDITIONS, HANDLING BHA

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021
83 MILE RIG MOVE
138 HOUR (6.75 DAYS) RIG MOVE
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00
14.5 HR WALK (.6 DAYS)
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

00:00 – 02:00 TRIP IN HOLE F/ 6,009' T/ 10,746'

02:00 – 03:00 FILL PIPE, SLIP AND CUT

03:00 – 05:30 TRIP IN HOLE F/ 10,746' T/15,160

05:30 – 06:00 WASH AND REAM F/15,160'

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)

NPT: 0.0 HRS (26 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250 DAILY DRILL COST: \$72,529 CUM DRILL COST: \$2,258,235 CUM MUD COST: \$149,766 CUM WELL COST: \$2,258,235

BOP

LAST BOP TEST: 10/21/21 LAST BOP DRILL: 10/24/21 NEXT BOP TEST: 11/11/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	12.0	63.0			2	9	11	13	19	14	38,000			78.00	7.30	8.00

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
7	6.75	BAKER	D406T	5308907	6x16	1.178	N	0						
6	6.75	ULTERRA	RPS613	57408	4x18, 2x16	1.387	N	0					284	

BIT NO. 6 INNER: 8 OUTER: 3 DULL: RO LOC: S SEAL: x GAUGE: 3 OTHER: BT RP: ROP

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	56	5050	347	.00165	95	13.71	338	417	14	680
2	WEATHERFORD	EQ-2200	5.000	12.000	56	5050	0	.00165	95	13.71	338	417	14	380

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker D406T	6.75		1	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.83deg Fxd. SSS14	5	2	27.97	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,016.54

ROT. WT.:

BHA WT. AIR:

P.U. WT.:

BHA WT. MUD:

S.O. WT.:

HRS. ON JARS:

TORQUE:

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
15,275	92.53	260.38	11,332		-1,605.7	-3,941.2	4,229.1	2.1
15,370	89.80	264.77	11,330		-1,618.0	-4,035.3	4,323.1	5.4
15,464	90.02	267.68	11,330		-1,624.2	-4,129.1	4,415.0	3.1
15,558	90.42	271.89	11,330		-1,624.5	-4,223.1	4,505.6	4.5
15,653	93.36	274.88	11,326		-1,618.9	-4,317.9	4,595.3	4.4
15,747	91.91	274.27	11,322		-1,611.4	-4,411.5	4,683.3	1.7
15,842	88.97	267.31	11,321		-1,610.1	-4,506.4	4,774.3	8.0
15,911	88.97	267.31	11,323		-1,613.3	-4,575.3	4,841.5	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,203	1,120	10,649

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH ITRRC		DIANA OPERATOR #4	JOB # 270375

9/11/2021	10:20	CE CEMENT- NO CIRCUIT	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199



DAILY DRILLING REPORT

RPT DATE: 10/28/2021

RPT NUM.: 27

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/8/2021
MD/TVD: 16218 FT/11322 FT
PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE AHEAD
ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS: 18.8
24 HR FTG: 259

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 57
HRS DRLG: 6

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/27/2021	10/28/2021	None	TRIPPING, WORKING TIGHT HOLE, LAYING BACK STANDS, DRIFTING DRILL PIPE

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021
83 MILE RIG MOVE
138 HOUR (6.75 DAYS) RIG MOVE
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00
14.5 HR WALK (.6 DAYS)
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

00:00 – 06:00 ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION CURVE F/ 16,218' - T/ 16,475' (257" @ 43 FPH) WOB: 20K, GPM: 300, PSI: 4,800-5,200, DIFF: 800-1000 PSI, RPM'S: 70-75, TORQUE ON: 14-15,800 FT/LBS OFF: 6,000-8,000 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100 SHALE TR LIMESTONE, BG GAS: 700U, CONN GAS: 2300U, MUD WEIGHT 12.1 IN/OUT W/61 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)

NPT: 0.0 HRS (26 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250 DAILY DRILL COST: \$48,871 CUM DRILL COST: \$2,300,054 CUM MUD COST: \$156,570 CUM WELL COST: \$2,300,054

BOP

LAST BOP TEST: 10/21/21 LAST BOP DRILL: 10/24/21 NEXT BOP TEST: 11/11/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	12.2	65.0			2	11	14	15	22	15	38,500			79.00	7.40	9.00

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
7	6.75	BAKER	D406T	5308907	6x16	1.178	N	15,959	16,218	259	5.6	20	243	46.1
6	6.75	ULTERRA	RPS613	57408	4x18, 2x16	1.387	N	0					284	

BIT NO. 6 INNER: 8 OUTER: 3 DULL: RO LOC: S SEAL: x GAUGE: 3 OTHER: BT RP: ROP

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	5200	300	.00165	95	13.40	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	5200	300	.00165	95	13.40	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker D406T	6.75		1	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.83deg Fxd. SSS14	5	2	27.97	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,016.54

ROT. WT.: 182,000

BHA WT. AIR: 8,552

P.U. WT.: 235,000

BHA WT. MUD: 7,012

S.O. WT.: 165,000

HRS. ON JARS:

TORQUE: 15,800

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
15,464	90.02	267.68	11,330	-1,624.2	-4,129.1	4,415.0	3.1	
15,558	90.42	271.89	11,330	-1,624.5	-4,223.1	4,505.6	4.5	
15,653	93.36	274.88	11,326	-1,618.9	-4,317.9	4,595.3	4.4	
15,747	91.91	274.27	11,322	-1,611.4	-4,411.5	4,683.3	1.7	
15,842	88.97	267.31	11,321	-1,610.1	-4,506.4	4,774.3	8.0	
15,938	89.54	253.16	11,323	-1,626.4	-4,600.7	4,869.5	14.8	
16,033	90.37	252.99	11,323	-1,654.0	-4,691.6	4,964.5	0.9	
16,128	89.05	258.09	11,323	-1,677.7	-4,783.6	5,059.4	5.5	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,294	9,355

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRCU	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199



DAILY DRILLING REPORT

RPT DATE: 10/29/2021

RPT NUM.: 28

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H

FIELD: PHANTOM (WOLFCAMP)

APE #: 21DC005

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/8/2021

MD/TVD: 17254 FT/13332 FT

PRESENT OPERATIONS: DRILLING 6.75" LATERAL AHEAD

ACTIVITY PLANNED: DRILL 6.75" LATERAL AHEAD

JOB: DRILLING

LEASE: UL JEFF EAST A 17-27-5 WA

API #: 32475381390000

ELEVATION: 2681

DFS: 19.8

24 HR FTG: 1036

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 58

HRS DRLG: 24

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/29/2021	10/30/2021	None	MAKING CONNECTIONS, MIXING MUD PRODUCT

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021

83 MILE RIG MOVE

138 HOUR (6.75 DAYS) RIG MOVE

SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00

14.5 HR WALK (.6 DAYS)

SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021

TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021

RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21

PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21

RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021

PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

00:00 – 06:00 ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION CURVE F/ 17,254' - T/ 17,423' (169' @ 28 FPH) WOB: 20K, GPM: 300, PPSI: 4,800-5,850, DIFF: 500-900 PSI, RPM'S: 45-70, TORQUE ON: 14-17,500 FT/LBS OFF: 7,000-8,500 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100 SHALE, BG GAS: 260U, CONN GAS: 2500U, MUD WEIGHT 12.2 IN/OUT W/61 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)

NPT: 0.0 HRS (26 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250 DAILY DRILL COST: \$56,788 CUM DRILL COST: \$2,364,726 CUM MUD COST: \$168,388 CUM WELL COST: \$2,364,726

BOP

LAST BOP TEST: 10/21/21 LAST BOP DRILL: 10/24/21 NEXT BOP TEST: 11/11/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	12.2	60.0			2	9	11	13	21	14	38,000			79.00	7.50	8.50

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
7	6.75	BAKER	D406T	5308907	6x16	1.178	N	16,218	17,254	1,036	22.0	17	243	47.0
6	6.75	ULTERRA	RPS613	57408	4x18, 2x16	1.387	N	0					284	

BIT NO. 6 INNER: 8 OUTER: 3 DULL: RO LOC: S SEAL: x GAUGE: 3 OTHER: BT RP: ROP

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	5600	300	.00165	95	13.40	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	5600	300	.00165	95	13.40	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker D406T	6.75		1	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.83deg Fxd. SSS14	5	2	27.97	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,016.54

ROT. WT.: 195,000

BHA WT. AIR: 8,552

P.U. WT.: 236,000

BHA WT. MUD: 7,112

S.O. WT.: 135,000

HRS. ON JARS:

TORQUE: 15,800

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
16,590	91.96	276.54	11,321		-1,699.9	-5,243.5	5,508.1	6.4
16,681	88.09	274.43	11,321		-1,691.2	-5,334.1	5,592.9	4.8
16,772	89.54	277.25	11,323		-1,682.0	-5,424.6	5,677.5	3.5
16,863	86.42	275.66	11,326		-1,671.7	-5,514.9	5,761.6	3.9
16,954	89.41	274.78	11,329		-1,663.5	-5,605.5	5,846.5	3.4
17,046	88.04	274.26	11,331		-1,656.2	-5,697.1	5,932.8	1.6
17,137	88.79	272.15	11,334		-1,651.1	-5,788.0	6,018.8	2.5
17,205	88.79	272.15	11,335		-1,648.6	-5,855.9	6,083.5	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,246	7,109

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRCU	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199

[illegible]



DAILY DRILLING REPORT

RPT DATE: 10/30/2021

RPT NUM.: 29

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/8/2021
MD/TVD: 17932 FT/11351 FT
PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE AHEAD
ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS: 20.8
24 HR FTG: 678

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 59
HRS DRLG: 24

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/30/2021	10/31/2021	None	MAKING CONNECTIONS, MIXING MUD PRODUCT

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021
83 MILE RIG MOVE
138 HOUR (6.75 DAYS) RIG MOVE
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00
14.5 HR WALK (.6 DAYS)
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

00:00 – 06:00 ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION CURVE F/ 17,932' - T/ 18,080' (148' @ 24 FPH) WOB: 16-20K, GPM: 300, PPSI: 5,100-5,600, DIFF: 500-7700 PSI, RPM'S: 65, TORQUE ON: 14-19,700 FT/LBS OFF: 7,000-8,500 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100 SHALE, BG GAS: 160U, CONN GAS: 2700U, MUD WEIGHT 12.3 IN/OUT W/58 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)

NPT: 0.0 HRS (26 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250 DAILY DRILL COST: \$77,423 CUM DRILL COST: \$2,434,265 CUM MUD COST: \$180,143 CUM WELL COST: \$2,434,265

BOP

LAST BOP TEST: 10/21/21 LAST BOP DRILL: 10/24/21 NEXT BOP TEST: 11/11/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	12.3	58.0			2	11	13	14	20	13	36,000			81.00	7.50	8.50

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
7	6.75	BAKER	D406T	5308907	6x16	1.178	N	17,254	17,932	678	21.1	20	243	32.1
6	6.75	ULTERRA	RPS613	57408	4x18, 2x16	1.387	N	0					284	

BIT NO. 6 INNER: 8 OUTER: 3 DULL: RO LOC: S SEAL: x GAUGE: 3 OTHER: BT RP: ROP

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	5600	300	.00165	95	13.56	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	5600	300	.00165	95	13.56	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker D406T	6.75		1	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.83deg Fxd. SSS14	5	2	27.97	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,016.54

ROT. WT.: 200,000

BHA WT. AIR: 8,552

P.U. WT.: 255,000

BHA WT. MUD: 7,012

S.O. WT.: 155,000

HRS. ON JARS:

TORQUE: 17,500

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
17,228	88.84	269.60	11,336		-1,649.7	-5,878.9	6,106.0	2.8
17,319	86.46	266.26	11,339		-1,653.0	-5,969.8	6,194.3	4.5
17,409	85.93	259.93	11,345		-1,663.8	-6,058.9	6,283.0	7.0
17,500	90.64	258.61	11,348		-1,680.7	-6,148.2	6,373.6	5.4
17,591	90.55	258.70	11,347		-1,698.6	-6,237.4	6,464.3	0.1
17,683	89.80	260.37	11,347		-1,715.3	-6,327.9	6,555.9	2.0
17,774	90.20	261.34	11,347		-1,729.8	-6,417.7	6,646.3	1.2
17,866	89.89	257.82	11,347		-1,746.4	-6,508.2	6,737.9	3.8

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,202	2,581	11,730

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRCU	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199

[illegible]



DAILY DRILLING REPORT

RPT DATE: 10/31/2021

RPT NUM.: 30

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC005

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/8/2021

MD/TVD: 18215 FT/11349 FT

PRESENT OPERATIONS: TRIPPING FOR BIT / MOTOR

ACTIVITY PLANNED: PICK UP NEW BHA, TRIP BACK IN HOLE, DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING

LEASE: UL JEFF EAST A 17-27-5 WA

API #: 32475381390000

ELEVATION: 2681

DFS: 21.8

24 HR FTG: 283

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 60

HRS DRLG: 15

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/31/2021	11/1/2021	None	MAKING CONNECTIONS, TRIPPING, REMOVING ROTATING HEAD

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021

83 MILE RIG MOVE

138 HOUR (6.75 DAYS) RIG MOVE

SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00

14.5 HR WALK (.6 DAYS)

SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021

TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021

RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21

PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21

RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021

PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

00:00 – 03:00 TRIP OUT OF HOLE F/ 6,011' TO DIRECTIONAL TOOLS, L/D 2 X AGITATORS AND D&R

03:00 – 04:30 L/D BHA # 7, SWAP OUT WASHED UBHO SUB FOR NEW UBHO

P/U & M/U 6 3/4" LATERAL BHA #8 AS FOLLOWS: SMITH XS613, 1X16, 4X14, 1X12 JETS, 0.91 TFA, SN-JP 5363, 5.25" MOTOR 6/7 8.0STG FIXED SET AT 1.83DEG 0.81REV/GAL, MAX TQ 7,632, MAX DIFF 2400, BIT TO BEND 3.9', KICK PAD OD 5.31", 5" TANDEM FLOAT SUB, 1-5" NMPC, 5" UBHO SUB, 4-5" NMDC, 5.75" XO, 2 STANDS DP, DRILL AND REAM, 23 STANDS DP, 5" POWER PULSE AGITATOR, SN-IFT-525-036 (2524.81' BACK), 37 STANDS DP, 5" ACTIVE PULSE AGITATOR, SN IFT-525-044 (6013.81' BACK)

04:30 – 06:00 TRIP IN HOLE

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)

NPT: 0.0 HRS (26 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250 DAILY DRILL COST: \$55,639 CUM DRILL COST: \$2,497,788 CUM MUD COST: \$190,618 CUM WELL COST: \$2,497,788

BOP

LAST BOP TEST: 10/21/21 LAST BOP DRILL: 10/24/21 NEXT BOP TEST: 11/11/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	12.3	58.0			2	10	12	14	20	13	36,500			80.00	7.60	8.00

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
7	6.75	BAKER	D406T	5308907	6x16	1.178	N	17,932	18,215	283	12.2	20	243	23.2
6	6.75	ULTERRA	RPS613	57408	4x18, 2x16	1.387	N	0					284	

BIT NO. 7 INNER: 2 OUTER: 3 DULL: CT LOC: S SEAL: X GAUGE: I OTHER: BT RP: ROP

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	5400	300	.00165	95	13.57	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	5400	300	.00165	95	13.57	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker D406T	6.75		1	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.83deg Fxd. SSS14	5	2	27.97	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,016.54

ROT. WT.: 200,000

BHA WT. AIR: 8,552

P.U. WT.: 255,000

BHA WT. MUD: 7,012

S.O. WT.: 165,000

HRS. ON JARS:

TORQUE: 19,600

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
17,500	90.64	258.61	11,348		-1,680.7	-6,148.2	6,373.6	5.4
17,591	90.55	258.70	11,347		-1,698.6	-6,237.4	6,464.3	0.1
17,683	89.80	260.37	11,347		-1,715.3	-6,327.9	6,555.9	2.0
17,774	90.20	261.34	11,347		-1,729.8	-6,417.7	6,646.3	1.2
17,866	89.89	257.82	11,347		-1,746.4	-6,508.2	6,737.9	3.8
17,956	89.10	251.49	11,348		-1,770.2	-6,595.0	6,827.8	7.1
18,046	90.42	252.90	11,348		-1,797.8	-6,680.6	6,917.8	2.1
18,138	92.04	248.59	11,346		-1,828.1	-6,767.5	7,009.6	5.0

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,375	9,355

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRCUI	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199

[illegible]

[illegible]



DAILY DRILLING REPORT

RPT DATE: 11/1/2021

RPT NUM.: 31

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/8/2021
MD/TVD: 18215 FT/11349 FT
PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE AHEAD
ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS: 22.8
24 HR FTG:

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 61
HRS DRLG:

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/1/2021	11/2/2021	Injury	TRIPPING, TUGGER SAFETY, NEAR MISS STAND DOWN

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021
83 MILE RIG MOVE
138 HOUR (6.75 DAYS) RIG MOVE
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00
14.5 HR WALK (6 DAYS)
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

00:00 – 02:00 REAM FROM 18,023' TO 18,215'

02:00 - 06:00 ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 18,215' - T/ 18,360' (145' @ 36.25 FPH) WOB: 12-16K, GPM: 300, PPSI: 4,800-5,900, DIFF: 500-900 PSI, RPM'S: 40-70, TORQUE ON: 14-23,000 FT/LBS
OFF: 7,000-8,500 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100 SHALE, BG GAS: 410U, CONN GAS: 950U, MUD WEIGHT 12.3 IN/OUT W/61 VIS, RUNNING CENTRIFUGE AS NEEDED
TO CONTROL LOW GRAVITY SOLIDS

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)
INJURED CHAIN HAND (CUT ON SCALP)
RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)
NPT: 1.5 HRS (27.5 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250 DAILY DRILL COST: \$111,344 CUM DRILL COST: \$2,609,131 CUM MUD COST: \$195,802 CUM WELL COST: \$2,609,131

BOP

LAST BOP TEST: 10/21/21 LAST BOP DRILL: 10/24/21 NEXT BOP TEST: 11/11/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	12.4	63.0			2	10	12	15	21	15	37,000			80.00	7.70	8.00

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
8	6.75	SMITH	XS613	JP 5363	1x16, 4x14, 1x12	0.908	N	0						
7	6.75	BAKER	D406T	5308907	6x16	1.178	N	17,932	18,215	283	12.2	20	243	23.2

BIT NO. 7 INNER: 2 OUTER: 3 DULL: CT LOC: S SEAL: X GAUGE: I OTHER: BT RP: ROP

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	4700	300	.00165	95	13.56	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	4700	300	.00165	95	13.56	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613	6.75		0.85	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.83deg Fxd. SSS14	5	2	30	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,013.81

BHA WT. AIR:

BHA WT. MUD:

HRS. ON JARS:

ROT. WT.:

P.U. WT.:

S.O. WT.:

TORQUE:

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
17,500	90.64	258.61	11,348		-1,680.7	-6,148.2	6,373.6	5.4
17,591	90.55	258.70	11,347		-1,698.6	-6,237.4	6,464.3	0.1
17,683	89.80	260.37	11,347		-1,715.3	-6,327.9	6,555.9	2.0
17,774	90.20	261.34	11,347		-1,729.8	-6,417.7	6,646.3	1.2
17,866	89.89	257.82	11,347		-1,746.4	-6,508.2	6,737.9	3.8
17,956	89.10	251.49	11,348		-1,770.2	-6,595.0	6,827.8	7.1
18,046	90.42	252.90	11,348		-1,797.8	-6,680.6	6,917.8	2.1
18,138	92.04	248.59	11,346		-1,828.1	-6,767.5	7,009.6	5.0

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,873	7,482

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRC	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199



DAILY DRILLING REPORT

RPT DATE: 11/2/2021

RPT NUM.: 32

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC005

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/8/2021

MD/TVD: 19330 FT/11329 FT

PRESENT OPERATIONS: DRILLING 6.75" LATERAL AHEAD

ACTIVITY PLANNED: DRILL 6.75 LATERAL AHEAD

JOB: DRILLING

LEASE: UL JEFF EAST A 17-27-5 WA

API #: 32475381390000

ELEVATION: 2681

DFS: 23.8

24 HR FTG: 1115

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 62

HRS DRLG: 22

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/2/2021	11/3/2021	None	MAKING CONNECTIONS, MXING MUD PRODUCT, VAC USE

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021

83 MILE RIG MOVE

138 HOUR (6.75 DAYS) RIG MOVE

SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00

14.5 HR WALK (.6 DAYS)

SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021

TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021

RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21

PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21

RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021

PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

00:00 – 06:00 ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 19,330' - T/ 19,660' (330' @ 55 FPH) WOB: 15-20K, GPM: 300, PPSI: 5,300-5,900, DIFF: 500-900 PSI, RPM'S: 60-70, TORQUE ON: 15-18,000 FT/LBS OFF: 7,500-8,800 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100 SHALE TRACE LIMESTONE, BG GAS: 290U, CONN GAS: 1000U, MUD WEIGHT 12.3 IN/OUT W/61 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)

NPT: 0 HRS (27.5 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$93,182	CUM DRILL COST: \$2,702,313	CUM MUD COST: \$201,933	CUM WELL COST: \$2,702,313
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BOP

LAST BOP TEST:	10/21/21	LAST BOP DRILL:	10/24/21	NEXT BOP TEST:	11/11/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	12.3	65.0			2	10	14	16	21	17	37,000					80.00	7.40	7.00

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
8	6.75	SMITH	XS613	JP 5363	1x16, 4x14, 1x12	0.908	N	18,215	19,330	1,115	18.2	20	243	61.3
7	6.75	BAKER	D406T	5308907	6x16	1.178	N	17,932	18,215	283	12.2	20	243	23.2
BIT NO. 7		INNER: 2	OUTER: 3	DULL: CT	LOC: S	SEAL: X	GAUGE: I	OTHER: BT	RP: ROP					

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	6030	300	.00165	95	13.65	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	6030	300	.00165	95	13.65	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613	6.75		0.85	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.83deg Fxd. SSS14	5	2	30	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,013.81

ROT. WT.: 204,000

BHA WT. AIR: 8,552

P.U. WT.: 260,000

BHA WT. MUD: 7,012

S.O. WT.: 165,000

HRS. ON JARS:

TORQUE: 9,200

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
18,599	92.13	250.88	11,335		-1,999.4	-7,195.1	7,467.6	1.7
18,694	90.81	252.64	11,332		-2,029.1	-7,285.2	7,562.5	2.3
18,787	88.92	251.23	11,332		-2,057.9	-7,373.7	7,655.4	2.5
18,883	91.12	255.62	11,332		-2,085.3	-7,465.6	7,751.4	5.1
18,977	92.57	255.71	11,329		-2,108.6	-7,556.7	7,845.3	1.6
19,072	89.85	254.04	11,327		-2,133.3	-7,648.3	7,940.3	3.4
19,167	89.76	254.66	11,328		-2,159.0	-7,739.8	8,035.3	0.7
19,261	90.02	255.45	11,328		-2,183.2	-7,830.6	8,129.2	0.9

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,199	2,082	12,599

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRCU	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199

[illegible]



DAILY DRILLING REPORT

RPT DATE: 11/3/2021

RPT NUM.: 33

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/8/2021
MD/TVD: 19750 FT/11337 FT
PRESENT OPERATIONS: TOOH TO BHA @ 172'
ACTIVITY PLANNED: CHECK BHA FOR WASHOUT, CHANGE OUT ANY DAMAGED TOOLS, TIH

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS: 24.8
24 HR FTG: 420

RIG SUPERV: CHRIS BLODGETT / JOSH GILMORE
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 63
HRS DRLG: 8

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/3/2021	11/4/2021	None	WEARING PROPER PPE, TRIPPING PIPE WITH NEW EMPLOYEES

83 MILE RIG MOVE
138 HOUR (6.75 DAYS) RIG MOVE
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00
14.5 HR WALK (.6 DAYS)
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

00:00 – 00:30 TOOH TO 172' DIRECTIONAL BHA.

00:30 – 04:00 CHECKED CONNECTIONS, SUBS, AND MUD MOTOR FOR FOR WASHOUT. NO VISIBLE DAMAGE TO BHA. BROKE OFF BIT AND INSPECTED CONNECTION SHOULDER AND JETS. DECISION MADE TO RERUN BIT AND CHANGE OUT MUD MOTOR AND UBHO. ON FURTHER INSPECTION FOUND RUBBER SEAL ON AGITATOR MANDREL DAMAGED

P/U & M/U 6 3/4" LATERAL BHA #9 AS FOLLOWS: RERUN SMITH XS613, 1X16, 4X14, 1X12 JETS, 0.91 TFA, SN-JP 5363, 5.25" MOTOR 7/8 3.8 STG FIXED AT 1.50 DEG 0.51 REV/GAL, MAX TQ 5,175, MAX DIFF 1800, BIT TO BEND 4.43', KICK PAD OD 5.25", 5" TANDEM FLOAT SUB, 1-5" NMPC, 5" UBHO SUB, 4-5" NMDC, 5.75" XO, 2 STANDS DP, DRILL AND REAM, 23 STANDS DP, 5" POWER GLIDE AGITATOR, SN-PG-525-0051 (2524' BACK), 37 STANDS DP, 5" POWER GLIDE AGITATOR, SN PG525-0075 (6013' BACK)

04:00 – 06:00 TIH TO 2524'. PICK UP POWERGLIDE AGITATOR. INITIAL PUMP PRESSURE 1500 PSI
PUMP PRESSURE WITH AGITATOR 1900 PSI @ 250 GPM. TIH TO 4,500'

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$46,452	CUM DRILL COST: \$2,748,765	CUM MUD COST: \$203,851	CUM WELL COST: \$2,748,765
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BOP

LAST BOP TEST:	10/21/21	LAST BOP DRILL:	10/24/21	NEXT BOP TEST:	11/11/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
16:00	12.5	74.0	6.6		2	10	14	17	20	15	275,620			62.70	7.50	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
8	6.75	SMITH	XS613	JP 5363	1x16, 4x14, 1x12	0.908	N	19,330	19,750	420	8.0	20	243	52.5
7	6.75	BAKER	D406T	5308907	6x16	1.178	N	17,932	18,215	283	12.2	20	243	23.2

BIT NO. 7 INNER: 2 OUTER: 3 DULL: CT LOC: S SEAL: X GAUGE: I OTHER: BT RP: ROP

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	4700	300	.00165	95	13.56	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	4700	300	.00165	95	13.56	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613	6.75		0.85	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.83deg Fxd. SSS14	5	2	30	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL
LENGTH: 6,013.81
ROT. WT.: 204,000

BHA WT. AIR:
P.U. WT.: 260,000

BHA WT. MUD:
S.O. WT.: 160,000

HRS. ON JARS:
TORQUE: 12,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
18,977	92.57	255.71	11,329	-2,108.6	-7,556.7	7,845.3	1.6	
19,072	89.85	254.04	11,327	-2,133.3	-7,648.3	7,940.3	3.4	
19,167	89.76	254.66	11,328	-2,159.0	-7,739.8	8,035.3	0.7	
19,261	90.02	255.45	11,328	-2,183.2	-7,830.6	8,129.2	0.9	
19,355	87.96	255.10	11,329	-2,207.1	-7,921.5	8,223.2	2.2	
19,449	88.26	254.75	11,333	-2,231.5	-8,012.2	8,317.2	0.5	
19,542	90.11	256.59	11,334	-2,254.5	-8,102.3	8,410.1	2.8	
19,637	86.20	254.22	11,337	-2,278.5	-8,194.2	8,505.0	4.8	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,133	10,466

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRCUL	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199



DAILY DRILLING REPORT

RPT DATE: 11/4/2021

RPT NUM.: 34

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/8/2021
MD/TVD: 19995 FT/11351 FT
PRESENT OPERATIONS: DRILLING LATERAL @ 19,995'
ACTIVITY PLANNED: DRILL LATERAL

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS: 25.8
24 HR FTG: 245

RIG SUPERV: CHRIS BLODGETT / JOSH GILMORE
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 64
HRS DRLG: 4

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/4/2021	11/5/2021	None	SITUATIONAL AWARENESS
BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021			
83 MILE RIG MOVE			
138 HOUR (6.75 DAYS) RIG MOVE			
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00			
14.5 HR WALK (6 DAYS)			
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021			
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021			
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21			
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21			
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021			
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021			
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021			

00:00 – 06:00 ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 19,995' - T/ 20,286' (291' @ 48.5 FPH) WOB: 18-20K, GPM: 300, PPSI: 5,300-5,700, DIFF: 500-800 PSI, RPM'S: 70-80, TORQUE ON: 18-20,000 FT/LBS
OFF: 10,000 FT/LBS, TAKING RETURNS UNRESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100% SHALE, BG GAS: 25-100U, CONN GAS: 1000U, MUD WEIGHT 12.3 IN/OUT W/66 VIS, RUNNING CENTRIFUGE AND
DIESEL AS NEEDED TO CONTROL LOW GRAVITY SOLIDS

SLIDE F/ 19,995' -T/ 20,008' (13' @ 26 FPH) 10-35K WOB, 200 DIFF, 300 GPM, TF- 140L
SLIDE F/ 20,178' -T/ 20,196' (18' @ 9 FPH) 10-45K WOB, 100 DIFF, 300 GPM, TF- 130L
SLIDE F/ 20,271' -T/ 20,286' (15' @ 15 FPH) 10-45K WOB, 100 DIFF, 300 GPM, TF- 140L

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)

NPT: 19 HRS (62.5 HRS TOTAL)

COST DATA

DRILLING AFE AMT:	\$3,638,250	DAILY DRILL COST:	\$67,634	CUM DRILL COST:	\$2,808,515	CUM MUD COST:	\$206,886	CUM WELL COST:	\$2,808,515
BOP									
LAST BOP TEST:	10/21/21	LAST BOP DRILL:	10/24/21	NEXT BOP TEST:	11/11/21				

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	12.5	84.0	6.4		2	10	15	19	20	14	281,620			62.70	7.10	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5363	1x16, 4x14, 1x12	0.910	Y	0						
8	6.75	SMITH	XS613	JP 5363	1x16, 4x14, 1x12	0.908	N	19,330	19,750	420	8.0	20	243	52.5

BIT NO. 8 INNER: 1 OUTER: 1 DULL: BC LOC: S SEAL: X GAUGE: I OTHER: CT RP: DTF

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	4900	300	.00165	95	13.56	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	4900	300	.00165	95	13.56	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613	6.75		0.85	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.50	5	2	30	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,013.81

ROT. WT.: 201,000

BHA WT. AIR:

P.U. WT.: 260,000

BHA WT. MUD:

S.O. WT.: 170,000

HRS. ON JARS:

TORQUE: 10,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
19,261	90.02	255.45	11,328		-2,183.2	-7,830.6	8,129.2	0.9
19,355	87.96	255.10	11,329		-2,207.1	-7,921.5	8,223.2	2.2
19,449	88.26	254.75	11,333		-2,231.5	-8,012.2	8,317.2	0.5
19,542	90.11	256.59	11,334		-2,254.5	-8,102.3	8,410.1	2.8
19,637	86.20	254.22	11,337		-2,278.5	-8,194.2	8,505.0	4.8
19,732	85.89	252.64	11,344		-2,305.5	-8,285.0	8,599.8	1.7
19,826	87.87	252.99	11,349		-2,333.2	-8,374.7	8,693.6	2.1
19,920	90.11	253.51	11,350		-2,360.3	-8,464.7	8,787.6	2.5

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		534	9,932

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375

9/11/2021	10:20	CE CEMENT- NO CIRCUL	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	24	24
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HRS)		13	168	168
AES DRILLING FLUIDS		MUD ENGINEER		1	24	24
TALLY ENERGY		2DD'S, 2 MWD HANDS		4	48	48

[illegible]



DAILY DRILLING REPORT

RPT DATE: 11/5/2021

RPT NUM.: 35

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H	JOB: DRILLING	RIG SUPERV: CHRIS BLODGETT / JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST A 17-27-5 WA	RIG PHONE: 432-355-3112
AFE #: 21DC005	API #: 32475381390000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/8/2021	DFS: 26.8	DOL: 65
MD/TVD: 20455 FT/11351 FT	24 HR FTG: 460	HRS DRLG: 10.5
PRESENT OPERATIONS: BACKREAMING OUT OF HOLE WITH FISH. FISH AT 841'		
ACTIVITY PLANNED: LAY DOWN FISH, CHECK PUMP PRESSURE AND MWD, TIH AND DRILL LATERAL		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/5/2021	11/6/2021	None	OVERHEAD HAZARDS, TRIPPING PIPE
BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021			
83 MILE RIG MOVE			
138 HOUR (6.75 DAYS) RIG MOVE			
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00			
14.5 HR WALK (.6 DAYS)			
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021			
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021			
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21			
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21			
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021			
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021			
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021			
00:00 – 02:30 BACK REAMED OUT OF HOLE 10 STDs WITH FISH @ 93 GPM, 70 RPM, 9-12,000 TORQUE. MAX TQ SET AT 14,000 LB, MAX PIC UP WT SET AT 225,000 LB. BACK REAMED AT 15-25 FPM. BOX ON TOOL JOINT OF FISH WASHED OUT. LAYED DOWN FISHING JOINT AND FISH.			
02:00 – 03:00 CIRCULATED THROUGH DRILL STRING AT 300 GPM, 4800 PSI. PRESSURE HELD STEADY, MWD WORKED PROPERLY.			
03:00 – 06:00 WASHED OIL BASE MUD OFF FLOOR, TIH F/ 17,367' T/ 20,150' AND TAGGED UP. WASH AND REAM F/ 20,150' T/ 20,455' AT BOTTOM.			
LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)			
NO ACCIDENTS, INCIDENTS, OR SPILLS			
RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)			
NPT: 13.5 HRS (76 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$60,511	CUM DRILL COST: \$2,884,301	CUM MUD COST: \$222,722	CUM WELL COST: \$2,884,301
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BOP

LAST BOP TEST: 10/21/21	LAST BOP DRILL: 10/24/21	NEXT BOP TEST: 11/11/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	12.4	68.0	6.4		2	11	17	19	19	14	271,855			62.50	6.60	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5363	1x16, 4x14, 1x12	0.910	Y	0						
8	6.75	SMITH	XS613	JP 5363	1x16, 4x14, 1x12	0.908	N	19,330	19,750	420	8.0	20	243	52.5

BIT NO. 8	INNER: 1	OUTER: 1	DULL: BC	LOC: S	SEAL: X	GAUGE: I	OTHER: CT	RP: DTF
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PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	4750	300	.00165	95	13.56	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	4750	300	.00165	95	13.56	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613	6.75		0.85	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.50	5	2	30	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL	BHA WT. AIR:	BHA WT. MUD:	HRS. ON JARS:
LENGTH: 6,013.81	P.U. WT.: 275,000	S.O. WT.: 170,000	TORQUE: 9,000
ROT. WT.: 204,000			

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
19,732	85.89	252.64	11,344		-2,305.5	-8,285.0	8,599.8	1.7
19,826	87.87	252.99	11,349		-2,333.2	-8,374.7	8,693.6	2.1
19,920	90.11	253.51	11,350		-2,360.3	-8,464.7	8,787.6	2.5
20,014	88.79	252.81	11,351		-2,388.6	-8,554.3	8,881.5	1.4
20,108	90.99	253.34	11,351		-2,416.0	-8,644.2	8,975.5	2.4
20,201	89.85	249.74	11,351		-2,445.4	-8,732.4	9,068.4	4.1
20,295	90.46	249.03	11,350		-2,478.5	-8,820.4	9,162.0	1.0
20,387	88.79	246.75	11,351		-2,513.2	-8,905.6	9,253.5	3.1

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,888	8,044

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRC	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199

[illegible]



DAILY DRILLING REPORT

RPT DATE: 11/6/2021

RPT NUM.: 36

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC005

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/8/2021

MD/TVD: 20870 FT/11315 FT

PRESENT OPERATIONS: DRILLING LATERAL @ 20,870'

ACTIVITY PLANNED: DRILL TO TD, PERFORM CLEANUP CYCLE AND TOOH TO RUN PRODUCTION LINER

JOB: DRILLING

LEASE: UL JEFF EAST A 17-27-5 WA

API #: 32475381390000

ELEVATION: 2681

DFS: 27.8

24 HR FTG: 415

RIG SUPERV: CHRIS BLODGETT / JOSH GILMORE

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 66

HRS DRLG: 17.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/6/2021	11/7/2021	None	INSPECTING HANDLING TOOLS

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021

83 MILE RIG MOVE

138 HOUR (6.75 DAYS) RIG MOVE

SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00

14.5 HR WALK (6 DAYS)

SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021

TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021

RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21

PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21

RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021

PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

00:00 - 06:00 ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 20,870' - T/ 20,995' (125' @ 20.8 FPH) WOB: 20-25K, GPM: 300, PPSI: 5,600-5,750, DIFF: 500-800 PSI, RPM'S: 50-80, TORQUE ON: 20-23,000 FT/LBS OFF: 11,000 FT/LBS, TAKING RETURNS UNRESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100% SHALE, BG GAS: 25-100U, CONN GAS: 300U, MUD WEIGHT 12.3+ IN/OUT W/62 VIS, RUNNING CENTRIFUGE AND DIESEL AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. SLIDING TO CONTROL BUILD AND TURN IN WELL.

** REVISED TARGET LINE PLAN #6: 11,497' TVD @ 0' VS W/ 91.05 DEG INCLINATION

SLIDE F/ 20,870' -T/ 20,918' (48' @ 24 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 120L

SLIDE F/ 20,923' -T/ 20,958' (35' @ 11.6 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 70L

SLIDE F/ 20,963' -T/ 20,995' (32' @ 16 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 70L

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)

NPT: 6 HRS (82 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250 DAILY DRILL COST: \$76,507 CUM DRILL COST: \$2,969,106 CUM MUD COST: \$234,361 CUM WELL COST: \$2,969,106

BOP

LAST BOP TEST: 10/21/21 LAST BOP DRILL: 10/24/21 NEXT BOP TEST: 11/11/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	12.4	64.0	7.4		2	10	15	19	19	15	271,855					62.20	7.10	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5363	1x16, 4x14, 1x12	0.910	Y	0						
8	6.75	SMITH	XS613	JP 5363	1x16, 4x14, 1x12	0.908	N	19,330	19,750	420	8.0	20	243	52.5
BIT NO. 8		INNER: 1	OUTER: 1	DULL: BC	LOC: S	SEAL: X	GAUGE: I	OTHER: CT	RP: DTF					

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	5100	300	.00165	95	13.56	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	5100	300	.00165	95	13.56	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613	6.75		0.85	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.50	5	2	30	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,013.81

ROT. WT.: 204,000

BHA WT. AIR:

P.U. WT.: 285,000

BHA WT. MUD:

S.O. WT.: 155,000

HRS. ON JARS:

TORQUE: 11,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
20,108	90.99	253.34	11,351		-2,416.0	-8,644.2	8,975.5	2.4
20,201	89.85	249.74	11,351		-2,445.4	-8,732.4	9,068.4	4.1
20,295	90.46	249.03	11,350		-2,478.5	-8,820.4	9,162.0	1.0
20,387	88.79	246.75	11,351		-2,513.2	-8,905.6	9,253.5	3.1
20,481	91.60	250.88	11,351		-2,547.1	-8,993.3	9,347.0	5.3
20,574	96.75	253.69	11,344		-2,575.3	-9,081.6	9,439.7	6.3
20,669	98.29	257.82	11,331		-2,598.5	-9,172.8	9,533.8	4.6
20,763	94.07	262.13	11,321		-2,614.8	-9,264.8	9,626.7	6.4

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,005	2,281	12,768

NOTIFICATIONS



DAILY DRILLING REPORT

RPT DATE:
RPT NUM.:
RIG:

WELL/JOB INFORMATION		
WELL NAME: UL JEFF EAST 17-27-5 WA 1H	JOB: DRILLING	RIG SUPERV: CHRIS BLODGETT / JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST A 17-27-5 WA	RIG PHONE: 432-355-3112
AFE #: 21DC005	API #: 32475381390000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/8/2021	DFS: 27.8	DOL: 66
MD/TVD: 20870 FT/11315 FT	24 HR FTG: 415	HRS DRLG: 17.5
PRESENT OPERATIONS: DRILLING LATERAL @ 20,870'		
ACTIVITY PLANNED: DRILL TO TD, PERFORM CLEANUP CYCLE AND TOOH TO RUN PRODUCTION LINER		

COST BREAKDOWN				
Code	Description	Daily Cost	Vendor	Remarks
2250-40		\$ 18,325	UNIT DRILLING	DAILY RIG COST FOR UNIT BOSS RIG. + \$25/MAN OBM
2250-65		\$ 20,074	ROLFSON OIL	# 2105367
2250-70	CORVA	\$ 258	CORVA	CORVA DAILY COSTS
2250-70	HOUSING	\$ 515	CIVEO	CAMP HOUSING. X5, TRANSFORMER
2250-70	INTERNET, PHONES, COM'S	\$ 140	INFRASTRUCTURE NETWORKS	INTERNET, PHONES, COM'S
2250-70	PASON	\$ 55	PASON	PASON COMPUTER
2250-70	WATER FLEET DAILY RENTAL.	\$ 560	WATERFLEET	WATER FLEET DAILY
2250-70	WELLDRIIVE	\$ 50	WELLDRIIVE	WELLDRIIVE
2250-80	DRILLING ADVISOR	\$ 80	FOCUSED DRILLING & COMPLETIONS LLC	DRILLING ADVISOR
2250-80	WELLSITE SUPERVISOR JOSH GILMORE	\$ 2,000	WORKRISE	WELLSITE SUPERVISION
2250-80	WELLSITE SURVISOR CHRIS BLODGETT	\$ 2,000	OIL CITY DRILLING SERVICES, LLC	WELLSITE SUPERVISION
2250-90	4 1/2" CET 43 DRILL PIPE RENTAL	\$ 2,418	CASEY EQUIPMENT, LTD	4.5" CET43 DRILL PIPE DAILY RENTAL W/ TAX
2250-90	4 1/2" CET 43 HW DRILL PIPE RENTAL	\$ 720	CASEY EQUIPMENT, LTD	4.5" CET43 DRILL PIPE DAILY RENTAL \$12/JOINT
2250-90	DOG LEG REAMER DAILY FOOTAGE CHARG	\$ 623	DRILLING TOOLS INTERNATIONAL (DTI)	DRILL AND REAM @ \$1.50/FT, \$6K MIN/\$12K MAX
2250-95	B.O.P POLLUTION CONTAINMENT	\$ 50	JOHNSON SPECIALTY TOOLS (JST)	BOP POLLUTION CONTAINMENT
2250-95	BOP SPOOL	\$ 44	MONAHANS NIPPLE-UP SERVICE	22" B.O.P SPOOL.
2250-95	CHOKES AND FLARE LINE	\$ 742	IRON HORSE TOOLS, INC.	CHOKES AND FLARE LINE
2250-95	FORKLIFT, MANLIFT, LIGHT TOWERS	\$ 578	SKEWL ENERGY SERVICES	FORKLIFT, MANLIFT, LIGHT TOWERS, TRASH TRAILER
2250-95	GENERATOR, PUMP, AND POLYLINE	\$ 169	JACK MILLSAP COMPANY, INC.	GENERATOR, PUMP, AND POLYLINE
2250-95	H2S MONITORING SYSTEM	\$ 81	CANON SAFETY SERVICES	H2S MONITORING
2250-95	INLINE MUD SCREEN	\$ 75	BLACK DIAMOND	INLINE MUD SCREEN
2250-95	MUD VAC & DIESEL SCREEN WASHER	\$ 121	EAST TEXAS SUPPLY	MUD VAC & DIESEL WASHER
2250-95	PREMIX,DRIVE OVER, MANIFOLD DIESEL PU	\$ 1,199	SKEWL ENERGY SERVICES	PREMIX,DRIVE OVER, MANIFOLD DIESEL PUMP, TANK FARM
2250-95	PRESSURE WASHER	\$ 55	JOHNSON SPECIALTY TOOLS (JST)	PRESSURE WASHER WITH HEATER
2250-95	PVT & RIG MONITORING	\$ 792	NOV	TOTCO PVT & RIG MONITORING
2250-95	ROCKIT	\$ 492	NABORS DRILLING SOLUTIONS	ROCKIT DAILY RENTAL
2250-95	ROTATING HEAD	\$ 1,430	ADS	MED PSI ROTATING HEAD 530/DAY 900/RUBBER
2250-95	STAGE 3	\$ 2,385	STAGE 3 SEPARATION	CENTRIFUGE, SHAKERS, HOG TROUGH, HAND
2250-115	DIRECTIONAL COST	\$ 7,439	TALLY DRILLING SERVICES	DAILY DIRECTIONAL COST.
2250-125	DRILLING MUD CHEMICALS & PERSONAL	\$ 3,807	AES DRILLING FLUIDS INC	DRILLING MUD CHEM'S & PERSONAL.
2250-125	MUD DIESEL	\$ 7,832	ROLFSON OIL	2646 GALLONS FUEL DIESEL
2250-130	GEOSTEERING COST	\$ 475	DIVERSIFIED WELL LOGGING LLC	
2250-130	MUD LOGGING	\$ 925	IMPAC EXPLORATION SERVICES, INC.	
Total:		\$ 76,507		

TIME BREAKDOWN						
FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	02:30	2.5	PRODUCTION DRILLING	FISHING	STUCK PIPE / FISHING	BACKREAMED OUT OF HOLE 10 STDs WITH FISH @ 93 GPM, 70 RPM, 9-12,000 TORQUE. MAX TQ SET AT 14,000 LB, MAX PIC UP WT SET AT 225,000 LB. BACKREAMED AT 15-25 FPM. BOX ON TOOLJOINT OF FISH WASHED OUT. LAYED DOWN FISHING JOINT AND FISH.
02:30	03:00	0.5	PRODUCTION DRILLING	COND MUD & CIRC	STUCK PIPE / FISHING	CIRCULATED THROUGH DRILL STRING AT 300 GPM, 4800 PSI. PRESSURE HELD STEADY, MWD WORKED PROPERLY.
03:00	06:00	3.0	PRODUCTION DRILLING	REAMING	STUCK PIPE / FISHING	WASHED OIL BASE MUD OFF FLOOR, TIH F/ 17,367' T/ 20,150' AND TAGGED UP. WASH AND REAM F/ 20,150' T/ 20,455' AT BOTTOM. GPM 300 , SPP 4800 PSI, DIFF 50-150 PSI, 70 RPM, TQ 8-13000
06:00	15:30	9.5	PRODUCTION DRILLING	DRILLING		ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 20,455' - T/ 20,731' (276' @ 29 FPH) WOB: 20-25K, GPM: 300, PPSI: 5,600-5,750, DIFF: 500-800 PSI, RPM'S: 50-80, TORQUE ON: 20-23,000 FT/LBS OFF: 11,000 FT/LBS, TAKING RETURNS UNRESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 80% SHALE/ 10% SILTSTONE/ 10% LIMESTONE, BG GAS: 25-100U, CONN GAS: 300U, MUD WEIGHT 12.3+ IN/OUT W/63 VIS, RUNNING CENTRIFUGE AND DIESEL AS NEEDED TO CONTROL LOW GRAVITY SOLIDS.
			PRODUCTION DRILLING	DRILLING		SLIDE F/ 20,471' -T/ 20,510' (39' @ 17 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 90R SLIDE F/ 20,635' -T/ 20,667' (32' @ 14 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 160R SLIDE F/ 20,711' -T/ 20,731' (20' @ 13 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 150L
15:30	16:00	0.5	PRODUCTION DRILLING	RIG SERVICE		SERVICE RIG AND TOPDRIVE
16:00	00:00	8.0	PRODUCTION DRILLING	DRILLING		ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 20,731' - T/ 20,870' (139' @ 17.4 FPH) WOB: 20-25K, GPM: 300, PPSI: 5,600-5,750, DIFF: 500-800 PSI, RPM'S: 50-80, TORQUE ON: 20-23,000 FT/LBS OFF: 11,000 FT/LBS, TAKING RETURNS UNRESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90% SHALE/ 10% LIMESTONE, BG GAS: 25-100U, CONN GAS: 300U, MUD WEIGHT 12.4 IN/OUT W/62 VIS, RUNNING CENTRIFUGE AND DIESEL AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. HAVING TO SLIDE MORE TO CONTROL WELL BUILDING ANGLE AND TURNING RIGHT ** REVISED TARGET LINE PLAN #6: 11,497' TVD @ 0' VS W/ 91.05 DEG INCLINATION SLIDE F/ 20,737' -T/ 20,777' (40' @ 16 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 150L SLIDE F/ 20,782' -T/ 20,807' (25' @ 14 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 150L SLIDE F/ 20,831' -T/ 20,870' (39' @ 15.6 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 150L-90L



DAILY DRILLING REPORT

RPT DATE: 11/7/2021

RPT NUM.: 37

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H

FIELD: PHANTOM (WOLFCAMP)

APE #: 21DC005

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/8/2021

MD/TVD: 21405 FT/11300 FT

PRESENT OPERATIONS: DRILLING LATERAL AT 21,405'

ACTIVITY PLANNED: DRILL TO TD, PERFORM CLEANUP CYCLE AND TOOH TO RUN PRODUCTION LINER

JOB: DRILLING

LEASE: UL JEFF EAST A 17-27-5 WA

API #: 32475381390000

ELEVATION: 2681

DFS: 28.8

24 HR FTG: 535

RIG SUPERV: CHRIS BLODGETT / JOSH GILMORE

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 67

HRS DRLG: 23.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/7/2021	11/8/2021	None	JSA'S, PREPARING FOR TASK

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021

83 MILE RIG MOVE

138 HOUR (6.75 DAYS) RIG MOVE

SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00

14.5 HR WALK (.6 DAYS)

SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021

TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021

RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21

PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21

RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021

PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

00:00 - 06:00 SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 21,405' - T/ 21,484' (79' @ 13.1 FPH) WOB: 20-25K, GPM: 300, PPSI: 5,000-5,150, DIFF: 50-100 PSI, TAKING RETURNS UNRESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100% SHALE, BG GAS: 25-100U, CONN GAS: 300U, MUD WEIGHT 12.3+ IN/OUT W/62 VIS, RUNNING CENTRIFUGE AND DIESEL AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. SLIDING 100% FOR ANGLE

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)

NPT: 0 HRS (82 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250 DAILY DRILL COST: \$60,585 CUM DRILL COST: \$3,029,691 CUM MUD COST: \$249,866 CUM WELL COST: \$3,029,691

BOP

LAST BOP TEST: 10/21/21 LAST BOP DRILL: 10/24/21 NEXT BOP TEST: 11/11/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)				PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	12.4	61.0	6.2		2	10	16	18	19	16	259,674						61.90	6.90	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5363	1x16, 4x14, 1x12	0.910	Y	0						
8	6.75	SMITH	XS613	JP 5363	1x16, 4x14, 1x12	0.908	N	19,330	19,750	420	8.0	20	243	52.5

BIT NO. 8 INNER: 1 OUTER: 1 DULL: BC LOC: S SEAL: X GAUGE: I OTHER: CT RP: DTF

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	5600	300	.00165	95	13.56	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	5600	300	.00165	95	13.56	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613	6.75		0.85	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.50	5	2	30	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,013.81

ROT. WT.: 204,000

BHA WT. AIR:

P.U. WT.: 285,000

BHA WT. MUD:

S.O. WT.: 155,000

HRS. ON JARS:

TORQUE: 11,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
20,669	98.29	257.82	11,331		-2,598.5	-9,172.8	9,533.8	4.6
20,763	94.07	262.13	11,321		-2,614.8	-9,264.8	9,626.7	6.4
20,855	90.20	263.36	11,318		-2,626.4	-9,356.0	9,717.6	4.4
20,950	84.92	259.23	11,322		-2,640.7	-9,449.8	9,811.8	7.1
21,045	86.42	248.86	11,329		-2,666.7	-9,540.7	9,906.4	11.0
21,139	93.41	245.43	11,329		-2,703.2	-9,627.3	9,999.6	8.3
21,233	96.04	245.17	11,322		-2,742.4	-9,712.4	10,092.1	2.8
21,327	97.32	248.07	11,311		-2,779.4	-9,798.1	10,184.6	3.4

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,486	10,282

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRCU	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199

PERSONNEL					
Company	Job Function	Total Personnel	Total Daily Hours	Cumulative Hours	
PERCUSSION PETROLEUM	DSM (12 HRS/MAN)	2	24	96	
UNIT DRILLING	1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HRS)	13	168	672	
AES DRILLING FLUIDS	MUD ENGINEER	1	24	96	
TALLY ENERGY	2DD'S, 2 MWD HANDS	4	48	192	
STAGE 3 SEPARATION	SOLIDS CONTROL HANDS	2	12	60	
IMPAC	MUD LOGGERS	2	24	96	
www.wellez.com WellEz On Demand ver_11.04.2021 TW					



DAILY DRILLING REPORT

RPT DATE:
RPT NUM.:
RIG:

WELL/JOB INFORMATION		
WELL NAME: UL JEFF EAST 17-27-5 WA 1H	JOB: DRILLING	RIG SUPERV: CHRIS BLODGETT / JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST A 17-27-5 WA	RIG PHONE: 432-355-3112
AFE #: 21DC005	API #: 32475381390000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/8/2021	DFS: 28.8	DOL: 67
MD/TVD: 21405 FT/11300 FT	24 HR FTG: 535	HRS DRLG: 23.5
PRESENT OPERATIONS: DRILLING LATERAL AT 21,405'		
ACTIVITY PLANNED: DRILL TO TD, PERFORM CLEANUP CYCLE AND TOOH TO RUN PRODUCTION LINER		

COST BREAKDOWN				
Code	Description	Daily Cost	Vendor	Remarks
2250-40		\$ 18,325	UNIT DRILLING	DAILY RIG COST FOR UNIT BOSS RIG. + \$25/MAN OBM
2250-70	CORVA	\$ 258	CORVA	CORVA DAILY COSTS
2250-70	HOUSING	\$ 515	CIVEO	CAMP HOUSING. X5, TRANSFORMER
2250-70	INTERNET, PHONES, COM'S	\$ 140	INFRASTRUCTURE NETWORKS	INTERNET, PHONES, COM'S
2250-70	PASON	\$ 55	PASON	PASON COMPUTER
2250-70	WATER FLEET DAILY RENTAL.	\$ 560	WATERFLEET	WATER FLEET DAILY
2250-70	WELLDRIIVE	\$ 50	WELLDRIIVE	WELLDRIIVE
2250-80	DRILLING ADVISOR	\$ 80	FOCUSED DRILLING & COMPLETIONS LLC	DRILLING ADVISOR
2250-80	WELLSITE SUPERVISOR JOSH GILMORE	\$ 2,000	WORKRISE	WELLSITE SUPERVISION
2250-80	WELLSITE SURVISOR CHRIS BLODGETT	\$ 2,000	OIL CITY DRILLING SERVICES, LLC	WELLSITE SUPERVISION
2250-90	4 1/2" CET 43 DRILL PIPE RENTAL	\$ 2,418	CASEY EQUIPMENT, LTD	4.5" CET43 DRILL PIPE DAILY RENTAL W/ TAX
2250-90	4 1/2" CET 43 HW DRILL PIPE RENTAL	\$ 720	CASEY EQUIPMENT, LTD	4.5" CET43 DRILL PIPE DAILY RENTAL \$12/JOINT
2250-90	DOG LEG REAMER DAILY FOOTAGE CHARG	\$ 803	DRILLING TOOLS INTERNATIONAL (DTI)	DRILL AND REAM @ \$1.50/FT, \$6K MIN/\$12K MAX
2250-95	B.O.P POLLUTION CONTAINMENT	\$ 50	JOHNSON SPECIALTY TOOLS (JST)	BOP POLLUTION CONTAINMENT
2250-95	BOP SPOOL	\$ 44	MONAHANS NIPPLE-UP SERVICE	22" B.O.P SPOOL.
2250-95	CHOKES AND FLARE LINE	\$ 742	IRON HORSE TOOLS, INC.	CHOKES AND FLARE LINE
2250-95	FORKLIFT, MANLIFT, LIGHT TOWERS	\$ 578	SKEWL ENERGY SERVICES	FORKLIFT, MANLIFT, LIGHT TOWERS, TRASH TRAILER
2250-95	GENERATOR, PUMP, AND POLYLINE	\$ 169	JACK MILLSAP COMPANY, INC.	GENERATOR, PUMP, AND POLYLINE
2250-95	H2S MONITORING SYSTEM	\$ 81	CANON SAFETY SERVICES	H2S MONITORING
2250-95	INLINE MUD SCREEN	\$ 75	BLACK DIAMOND	INLINE MUD SCREEN
2250-95	MUD VAC & DIESEL SCREEN WASHER	\$ 121	EAST TEXAS SUPPLY	MUD VAC & DIESEL WASHER
2250-95	PREMIX,DRIVE OVER, MANIFOLD DIESEL PL	\$ 1,199	SKEWL ENERGY SERVICES	PREMIX,DRIVE OVER, MANIFOLD DIESEL PUMP, TANK FARM
2250-95	PRESSURE WASHER	\$ 55	JOHNSON SPECIALTY TOOLS (JST)	PRESSURE WASHER WITH HEATER
2250-95	PVT & RIG MONITORING	\$ 792	NOV	TOTCO PVT & RIG MONITORING
2250-95	ROCKIT	\$ 492	NABORS DRILLING SOLUTIONS	ROCKIT DAILY RENTAL
2250-95	ROTATING HEAD	\$ 1,430	ADS	MED PSI ROTATING HEAD 530/DAY 900/RUBBER
2250-95	STAGE 3	\$ 2,385	STAGE 3 SEPARATION	CENTRIFUGE, SHAKERS, HOG TROUGH, HAND
2250-115	DIRECTIONAL COST	\$ 7,544	TALLY DRILLING SERVICES	DAILY DIRECTIONAL COST.
2250-125	DRILLING MUD CHEMICALS & PERSONAL	\$ 7,471	AES DRILLING FLUIDS INC	DRILLING MUD CHEM'S & PERSONAL.
2250-125	MUD DIESEL	\$ 8,033	ROLFSON OIL	2714 GALLONS MUD DIESEL
2250-130	GEOSTEERING COST	\$ 475	DIVERSIFIED WELL LOGGING LLC	GEO STEERING DAILY COST
2250-130	MUD LOGGING	\$ 925	IMPAC EXPLORATION SERVICES, INC.	
Total:		\$ 60,585		

TIME BREAKDOWN					
FROM	TO	HRS	PHASE	CODE	NPT
00:00	10:30	10.5			
					ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 20,870' - T/ 21,070' (200' @ 19 FPH) WOB: 20-25K, GPM: 300, PPSI: 5,600-5,750, DIFF: 500-750 PSI, RPM'S: 50-70, TORQUE ON: 20-23,000 FT/LBS OFF: 11,000 FT/LBS, TAKING RETURNS UNRESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100% SHALE BG GAS: 25-100U, CONN GAS: 300U, MUD WEIGHT 12.3+ IN/OUT W/66 VIS, RUNNING CENTRIFUGE AND DIESEL AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. HAVING TO SLIDE MORE TO CONTROL WELL BUILDING ANGLE AND TURNING RIGHT
					SLIDE F/ 20,870' -T/ 20,918' (48' @ 24 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 120L
					SLIDE F/ 20,923' -T/ 20,958' (35' @ 11.6 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 70L
					SLIDE F/ 20,963' -T/ 21,070' (107' @ 16.4 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 45-70L
					SLIDE F/ 20,870' -T/ 20,918' (48' @ 24 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 120L
10:30	15:30	5.0			
					ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 21,070' - T/ 21,202' (132' @ 26.4 FPH) WOB: 20-25K, GPM: 300, PPSI: 5,600-5,750, DIFF: 500-750 PSI, RPM'S: 70, TORQUE ON: 20-23,000 FT/LBS OFF: 11,000 FT/LBS, TAKING RETURNS UNRESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100% SHALE TR LIMESTONE/ TR SILTSTONE BG GAS: 25-100U, CONN GAS: 300U, MUD WEIGHT 12.3+ IN/OUT W/61 VIS, RUNNING CENTRIFUGE AND DIESEL AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. HAVING TO SLIDE MORE TO CONTROL WELL BUILDING ANGLE AND TURNING RIGHT
					SLIDE F/ 21,080' -T/ 21,121' (41' @ 13.6 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 30R
15:30	16:00	0.5			
16:00	00:00	8.0			
					SERVICE RIG AND TOPDRIVE
					ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 21,202' - T/ 21,405' (203' @ 26.4 FPH) WOB: 20-25K, GPM: 300, PPSI: 5,600-5,750, DIFF: 500-750 PSI, RPM'S: 70, TORQUE ON: 20-23,000 FT/LBS OFF: 11,000 FT/LBS, TAKING RETURNS UNRESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100% SHALE TR LIMESTONE/ TR SILTSTONE BG GAS: 25-100U, CONN GAS: 300U, MUD WEIGHT 12.3+ IN/OUT W/61 VIS, RUNNING CENTRIFUGE AND DIESEL AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. HAVING TO SLIDE MORE TO CONTROL WELL BUILDING ANGLE
					SLIDE F/ 21,293' -T/ 21,121' (41' @ 13.6 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 30R

TOTAL HRS		24.0				



DAILY DRILLING REPORT

RPT DATE: 11/8/2021

RPT NUM.: 38

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC005

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/8/2021

MD/TVD: 21701 FT/11284 FT

PRESENT OPERATIONS: BACKREAMING OUT OF HOLE AT 19,640'

ACTIVITY PLANNED: TRIP/ WASH AND REAM TO BOTTOM, PUMP SWEEP, SPOT BEADS AND TOOH TO RUN PRODUCTION LINER

JOB: DRILLING

LEASE: UL JEFF EAST A 17-27-5 WA

API #: 32475381390000

ELEVATION: 2681

DFS: 29.8

24 HR FTG: 296

RIG SUPERV: CHRIS BLODGETT / JOSH GILMORE

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 68

HRS DRLG: 13

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/8/2021	11/9/2021	None	WORKING ON MUDPUMPS, BACKREAMING

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021

83 MILE RIG MOVE

138 HOUR (6.75 DAYS) RIG MOVE

SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00

14.5 HR WALK (.6 DAYS)

SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021

TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021

RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21

PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21

RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021

PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

00:00 – 00:30 TOOH F/ 19'640' T/ 19,185' ON ELEVATORS WITH NO EXCESS DRAG. TRIP BACK IN HOLE F/ 19,185' T/ 19,475' AND TAGGED UP

00:30 – 04:30 WASH AND REAM F/ 19,185' T/ 19,485' AND TAGGED UP. WASH AND REAM F/ 19,485' T/ 21,701' 300 GPM, 80 RPM. 50-150 DIFF, 10-15,000 LB TQ.

04:30 – 06:00 PUMP WEIGHTED SWEEP, CIRCULATE AT 300 GPM, ROTATING 80 RPM AND RECIPROCATING PIPE. SPP 5,100 PSI, TQ 10,000 LB

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)

NPT: 0 HRS (82 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$71,888	CUM DRILL COST: \$3,093,932	CUM MUD COST: \$276,931	CUM WELL COST: \$3,093,932
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BOP

LAST BOP TEST:	10/21/21	LAST BOP DRILL:	10/24/21	NEXT BOP TEST:	11/11/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	12.4	60.0	6.2		2	10	15	17	19	13	259,295			61.40	7.40	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5363	1x16, 4x14, 1x12	0.910	Y	21,405	21,701	296	13.0	20	248	22.8
8	6.75	SMITH	XS613	JP 5363	1x16, 4x14, 1x12	0.908	N	19,330	19,750	420	8.0	20	243	52.5

BIT NO. 8	INNER: 1	OUTER: 1	DULL: BC	LOC: S	SEAL: X	GAUGE: I	OTHER: CT	RP: DTF
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PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	5575	300	.00165	95	13.56	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	5575	300	.00165	95	13.56	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613	6.75		0.85	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.50	5	2	30	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,013.81

BHA WT. AIR:

ROT. WT.: 204,000

P.U. WT.: 280,000

BHA WT. MUD:

S.O. WT.: 160,000

HRS. ON JARS:

TORQUE: 13,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
21,045	86.42	248.86	11,329		-2,666.7	-9,540.7	9,906.4	11.0
21,139	93.41	245.43	11,329		-2,703.2	-9,627.3	9,999.6	8.3
21,233	96.04	245.17	11,322		-2,742.4	-9,712.4	10,092.1	2.8
21,327	97.32	248.07	11,311		-2,779.4	-9,798.1	10,184.6	3.4
21,421	97.98	254.13	11,298		-2,809.6	-9,886.2	10,277.6	6.4
21,515	94.15	259.58	11,288		-2,830.8	-9,977.1	10,370.9	7.1
21,609	89.71	265.20	11,285		-2,843.2	-10,070.2	10,463.9	7.6
21,638	90.46	264.59	11,285		-2,845.8	-10,099.1	10,492.4	3.3

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,238	8,044

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRC	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199

TIME BREAKDOWN						
FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	08:00	8.0	PRODUCTION DRILLING	DRILLING		SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 21,405' - T/ 21,515' (110' @ 13.75 FPH) GTF- 180, WOB: 20-25K, GPM: 300, PPSI: 5,000-5,150, DIFF: 50-150 PSI, TAKING RETURNS UNRESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100% SHALE/ TR LIMESTONE, BG GAS: 25-100U, CONN GAS: 300U, MUD WEIGHT 12.3+ IN/OUT W/62 VIS, RUNNING CENTRIFUGE AND DIESEL AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. SLIDING 100% TO KEEP WELL FROM BUILDING ANGLE
08:00	13:00	5.0	PRODUCTION DRILLING	DRILLING		ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 21,515' - T/ 21,701' (186' @ 37.2 FPH) WOB: 20-25K, GPM: 300, PPSI: 5,600-5,750, DIFF: 500-750 PSI, RPM'S: 70, TORQUE ON: 20-23,000 FT/LBS OFF: 11,000 FT/LBS, TAKING RETURNS UNRESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100% SHALE TR LIMESTONE/ TR SILTSTONE BG GAS: 25-100U, CONN GAS: 300U, MUD WEIGHT 12.3+ IN/OUT W/61 VIS, RUNNING CENTRIFUGE AND DIESEL AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. TD WELL @ 21,701', 19.7' HIGH/ 4' RIGHT SLIDE F/ 21,525' -T/ 21,589' (64' @ 21.3 FPH) 15-30K WOB, 200 DIFF, 300 GPM, TF- 150L
13:00	20:00	7.0	PRODUCTION DRILLING	COND MUD & CIRC		CIRCULATE AND RECIPROCATATE PIPE @ 300 GPM, 80 RPM FOR A FULL CIRCULATION, ALTERNATING WEIGHTED SWEEPS AND HIGH VIS SWEEPS EVERY STAND. RACKING BACK STAND AFTER SWEEP RETURNS F/ 21,707' T/21,380'. PUMPED A TOTAL OF FOUR FULL CIRCULATIONS. SWEEPS SHOWED 5-20% ADDITIONAL CUTTINGS. SHAKERS CLEAN AT END OF CLEANUP CYCLE SPP BEFORE CLEANUP CYCLE 5140 PSI/ AFTER 5050 PSI TORQUE BEFORE CLEANUP CYCLE 13,000 LB/ AFTER 11,000 LB PUMPED CALIPER SWEEP AND CALCULATED 5% WASHOUT
20:00	00:00	4.0	PRODUCTION DRILLING	COND MUD & CIRC		BACKREAM F/ 21,380' T/ 21,045', 300 GPM, 80 RPM. SPP 4950 PSI, DIFF 50-200 PSI, TORQUE 11- 20,000 LB. ATTEMPT TO TRIP OUT ON ELEVATORS WITH NO SUCCESS @ 21,045'. BACK REAM F/ 21,045' T/ 20,300'. AT 20,300' TORQUE SMOOTHED OUT TO 10-11,000LB. TRIPPED OUT ON ELEVATORS F/ 20,300' T/ 19,875', HOLE PULLED TIGHT AT 19,875'. BACKREAM F/ 19,875' T/ 19,640', ATTEMPTING TO STRAIGHT PULL BEFORE BACKREAMING EACH STAND.



DAILY DRILLING REPORT

RPT DATE: 11/9/2021

RPT NUM.: 39

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H	JOB: DRILLING	RIG SUPERV: CHRIS BLODGETT / JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST A 17-27-5 WA	RIG PHONE: 432-355-3112
A/E #: 21DC005	API #: 32475381390000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/8/2021	DFS: 30.8	DOL: 69
MD/TVD: 21701 FT/11284 FT	24 HR FTG:	HRS DRLG:
PRESENT OPERATIONS: RUNNING 5.5" PRODUCTION LINER AT 400'		
ACTIVITY PLANNED: RUN PRODUCTION LINER, CEMENT, POOH AND RUN TIE BACK CASING		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/9/2021	11/10/2021	None	FIRST DAY BACK, RIGGING UP AND RUNNING CASING

83 MILE RIG MOVE

138 HOUR (6.75 DAYS) RIG MOVE

SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00

14.5 HR WALK (.6 DAYS)

SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021

TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021

RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21

PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21

RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021

PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

TD JEFF EAST 17-27-5 WA 1H @ 13:00 HRS, 11/8/2021

00:00 – 02:30 RUN 5.5" 23# P-110 WEDGE 425 LINER F/ 400' T/ 2,295'

02:30 – 03:00 SERVICE RIG. WHILE COMING UP WITH JOINT OF CASING, DRILLER FLOATED ELEVATORS TOO SOON, CAUSING JOINT TO HIT AND BEND SECTION OF DRAG CHAIN. STOPPED AND STRAIGHTENED DRAG CHAIN.

03:00 – 06:00 RUN 5.5" 23# P-110 WEDGE 425 LINER F/ 2,295' T/ 6,100'

WILL RUN LINER AS FOLLOWS:

5.5" INOVEX REAMER SHOE TO BE SET AT 21,678', 1- JT 5.5" 23# P-110 TXP BTC LINER, ATC LANDING COLLAR TO BE SET AT 21,631', 2- PUP JOINTS, GEO DYNAMICS BURST SUB TO BE SET AT 21,600', 3- PUP JOINTS, GEO DYNAMICS BURST SUB TO BE SET AT 21,565', 1- PUP JOINT, CROSSOVER, 33- JOINTS OF 5.5" 23# P-110 WEDGE 425 LINER, MARKER JOINT TO BE SET AT 20,106', 79- JTS 5.5" 23# P-110 WEDGE 425 LINER, MARKER JOINT TO BE SET AT 16,621', 134- JTS 5.5" 23# P-110 WEDGE 425 LINER, ATC FLOTATION SUB, 6- JTS 5.5" 23# P-110 WEDGE 425 LINER, ATC LINER HANGER TO BE SET AT 10,626', ATC LINER TOP PACKER TO BE SET AT 10,623', AND ATC TIE BACK RECEPTACLE TO BE SET AT 10,623'

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPLIS

COST DATA

DRILLING A/E AMT: \$3,638,250	DAILY DRILL COST: \$94,022	CUM DRILL COST: \$3,196,549	CUM MUD COST: \$282,230	CUM WELL COST: \$3,196,549
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BOP

LAST BOP TEST:	10/21/21	LAST BOP DRILL:	10/24/21	NEXT BOP TEST:	11/11/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	12.5	63.0	6.6		2	10	15	17	19	13	259,295			61.40	7.10	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5363	1x16, 4x14, 1x12	0.910	Y	0	21,701				248	
8	6.75	SMITH	XS613	JP 5363	1x16, 4x14, 1x12	0.908	N	19,330	19,750	420	8.0	20	243	52.5

BIT NO. 9 INNER: 1 OUTER: 2 DULL: BT LOC: S SEAL: X GAUGE: I OTHER: CT RP: TD

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	4950	300	.00165	95	13.56	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	4950	300	.00165	95	13.56	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613	6.75		0.85	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.50	5	2	30	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,013.81

ROT. WT.: 204,000

BHA WT. AIR:

P.U. WT.: 325,000

BHA WT. MUD:

S.O. WT.: 155,000

HRS. ON JARS:

TORQUE: 9,500

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
21,139	93.41	245.43	11,329		-2,703.2	-9,627.3	9,999.6	8.3
21,233	96.04	245.17	11,322		-2,742.4	-9,712.4	10,092.1	2.8
21,327	97.32	248.07	11,311		-2,779.4	-9,798.1	10,184.6	3.4
21,421	97.98	254.13	11,298		-2,809.6	-9,886.2	10,277.6	6.4
21,515	94.15	259.58	11,288		-2,830.8	-9,977.1	10,370.9	7.1
21,609	89.71	265.20	11,285		-2,843.2	-10,070.2	10,463.9	7.6
21,638	90.46	264.59	11,285		-2,845.8	-10,099.1	10,492.4	3.3
21,701	90.46	264.59	11,284		-2,851.7	-10,161.8	10,554.3	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,492	6,552

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRCUL	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199
11/8/2021	15:30	PRODUCTION CSG/CM	OWENS/BLODGETT	TRRC	GABBY	
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	24	144
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HRS)		13	168	1,008
AES DRILLING FLUIDS		MUD ENGINEER		1	24	144
TALLY ENERGY		2DD'S, 2 MWD HANDS		4	48	288
STAGE 3 SEPARATION		SOLIDS CONTROL HANDS		2	12	84
IMPAC		MUD LOGGERS		2	24	144
PERCUSSION PETROLEUM		DRILLING ENGINEER		1	16	16
TENARUS		FIELD REP THREAD REP		1	12	12
www.wellEZ.com				WellEZ On Demand	ver. 11.04.2021 TW	

[illegible]



DAILY DRILLING REPORT

RPT DATE: 11/10/2021

RPT NUM.: 40

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC005
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/8/2021
MD/TVD: 21701 FT/11284 FT
PRESENT OPERATIONS: CIRCULATING ON BOTTOM PRIOR TO CEMENTING LINER
ACTIVITY PLANNED: SET LINER HANGER, CEMENT, DISPLACE WELL WITH FW, TOOH TO RUN TIE BACK CASING

JOB: DRILLING
LEASE: UL JEFF EAST A 17-27-5 WA
API #: 32475381390000
ELEVATION: 2681
DFS: 31.8
24 HR FTG:

RIG SUPERV: MICHAEL MCCARTY / JOSH GILMORE
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 70
HRS DRLG:

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/10/2021	11/11/2021	None	TIH, WORKING WITH THIRD PARTY

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021

83 MILE RIG MOVE

138 HOUR (6.75 DAYS) RIG MOVE

SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00

14.5 HR WALK (.6 DAYS)

SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021

TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021

RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21

PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21

RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021

PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

TD JEFF EAST 17-27-5 WA 1H @ 13:00 HRS, 11/8/2021

00:00 – 02:30 RUN 5.5" 23# P-110 WEDGE 425 LINER F/ 400' T/ 2,295'

02:30 – 03:00 SERVICE RIG. WHILE COMING UP WITH JOINT OF CASING, DRILLER FLOATED ELEVATORS TOO SOON, CAUSING JOINT TO HIT AND BEND SECTION OF DRAG CHAIN. STOPPED AND STRAIGHTENED DRAG CHAIN.

03:00 – 06:00 RUN 5.5" 23# P-110 WEDGE 425 LINER F/ 2,295' T/ 6,100'

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)

NPT: 0 HRS (82 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250 DAILY DRILL COST: \$62,843 CUM DRILL COST: \$3,259,392 CUM MUD COST: \$287,530 CUM WELL COST: \$3,259,392

BOP

LAST BOP TEST: 10/21/21 LAST BOP DRILL: 10/24/21 NEXT BOP TEST: 11/11/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5363	1x16, 4x14, 1x12	0.910	Y	0	21,701				248	
8	6.75	SMITH	XS613	JP 5363	1x16, 4x14, 1x12	0.908	N	19,330	19,750	420	8.0	20	243	52.5

BIT NO. 9 INNER: 1 OUTER: 2 DULL: BT LOC: S SEAL: X GAUGE: I OTHER: CT RP: TD

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	4950	300	.00165	95	13.56	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	4950	300	.00165	95	13.56	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613	6.75		0.85	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.50	5	2	30	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,013.81

BHA WT. AIR:

BHA WT. MUD:

HRS. ON JARS:

ROT. WT.:

P.U. WT.:

S.O. WT.:

TORQUE:

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
21,139	93.41	245.43	11,329		-2,703.2	-9,627.3	9,999.6	8.3
21,233	96.04	245.17	11,322		-2,742.4	-9,712.4	10,092.1	2.8
21,327	97.32	248.07	11,311		-2,779.4	-9,798.1	10,184.6	3.4
21,421	97.98	254.13	11,298		-2,809.6	-9,886.2	10,277.6	6.4
21,515	94.15	259.58	11,288		-2,830.8	-9,977.1	10,370.9	7.1
21,609	89.71	265.20	11,285		-2,843.2	-10,070.2	10,463.9	7.6
21,638	90.46	264.59	11,285		-2,845.8	-10,099.1	10,492.4	3.3
21,701	90.46	264.59	11,284		-2,851.7	-10,161.8	10,554.3	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,263	879	12,936

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 2703175
9/11/2021	10:20	CE CEMENT- NO CIRCUL	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199
11/8/2021	15:30	PRODUCTION CSG/CM	OWENS/BLODGETT	TRRC	GABBY	
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	24	168
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HRS)		13	168	1,176
AES DRILLING FLUIDS		MUD ENGINEER		1	24	168
TALLY ENERGY		2DD'S, 2 MWD HANDS		4		288
STAGE 3 SEPARATION		SOLIDS CONTROL HANDS		2	12	96
IMPAC		MUD LOGGERS		2	24	168
PERCUSSION PETROLEUM		DRILLING ENGINEER		1	16	32
TENARUS		FIELD REP THREAD REP		1	12	24
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DAILY DRILLING REPORT

RPT DATE: 11/10/2021

RPT NUM.: 40

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY / JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST A 17-27-5 WA	RIG PHONE: 432-355-3112
AFE #: 21DC005	API #: 32475381390000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/8/2021	DFS: 31.8	DOL: 70
MD/TVD: 21701 FT/11284 FT	24 HR FTG:	HRS DRLG:
PRESENT OPERATIONS: CIRCULATING ON BOTTOM PRIOR TO CEMENTING LINER		
ACTIVITY PLANNED: SET LINER HANGER, CEMENT, DISPLACE WELL WITH FW, TOOHP TO RUN TIE BACK CASING		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/10/2021	11/11/2021	None	TIH, WORKING WITH THIRD PARTY
BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021			
83 MILE RIG MOVE			
138 HOUR (6.75 DAYS) RIG MOVE			
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00			
14.5 HR WALK (.6 DAYS)			
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021			
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021			
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21			
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21			
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021			
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021			
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021			
TD JEFF EAST 17-27-5 WA 1H @ 13:00 HRS, 11/8/2021			
00:00 – 02:30 CONTINUE CIRCULATING B/U AT 3.5 BPM W/ 1115 PSI, MONITORING GAIN / LOSS AND RIGGING UP CEMENTERS.			
02:30 – 04:00 DROP SETTING BALL. PRESSURE UP TO 3,000 PSI AND SET LINER HANGER. SET 50,000 DOWN TO TEST. PICK UP, FREE TRAVEL AT 230,000 LB. PRESSURE UP TO 4,000 PSI AND BLOW LOWER BALL SEAT. PICK UP AND PUT 15 ROUNDS TO THE RIGHT IN DRILL PIPE. CIRCULATE AND VERIFY NO PACKOFF OR OBSTRUCTION IN LINER HANGER PRIOR TO CEMENTING			
04:00 - 06:00 TEST LINES TO 8,000 PSI. PUMP 25 BBL 12.8# BARITE SPACER @ 3 BPM, FOLLOWED BY TAIL CEMENT, 955 SX (207.5 BBL) 50% B_POZ+50% CLASS H MIXED AT 14.5 PPG, 1.22 YD, WITH +5% SALT+0.05% SUSPENDACEM 6302+0.6% C-20+0.5% C-47B+0.005GPS NOFOAM V1A			
LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)			
NO ACCIDENTS, INCIDENTS, OR SPILLS			
RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)			
NPT: 0 HRS (82 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$62,843	CUM DRILL COST: \$3,259,392	CUM MUD COST: \$287,530	CUM WELL COST: \$3,259,392
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BOP

LAST BOP TEST: 10/21/21	LAST BOP DRILL: 10/24/21	NEXT BOP TEST: 11/11/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5363	1x16, 4x14, 1x12	0.910	Y	0	21,701				248	
8	6.75	SMITH	XS613	JP 5363	1x16, 4x14, 1x12	0.908	N	19,330	19,750	420	8.0	20	243	52.5
BIT NO. 9		INNER: 1	OUTER: 2	DULL: BT	LOC: S	SEAL: X	GAUGE: I	OTHER: CT	RP: TD					

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49	4950	300	.00165	95	13.56	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49	4950	300	.00165	95	13.56	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613	6.75		0.85	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.50	5	2	30	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,013.81

ROT. WT.:

BHA WT. AIR:

P.U. WT.:

BHA WT. MUD:

S.O. WT.:

HRS. ON JARS:

TORQUE:

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
21,139	93.41	245.43	11,329	-2,703.2	-9,627.3		9,999.6	8.3
21,233	96.04	245.17	11,322	-2,742.4	-9,712.4		10,092.1	2.8
21,327	97.32	248.07	11,311	-2,779.4	-9,798.1		10,184.6	3.4
21,421	97.98	254.13	11,298	-2,809.6	-9,886.2		10,277.6	6.4
21,515	94.15	259.58	11,288	-2,830.8	-9,977.1		10,370.9	7.1
21,609	89.71	265.20	11,285	-2,843.2	-10,070.2		10,463.9	7.6
21,638	90.46	264.59	11,285	-2,845.8	-10,099.1		10,492.4	3.3
21,701	90.46	264.59	11,284	-2,851.7	-10,161.8		10,554.3	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,263	879	12,936

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRCUL	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199
11/8/2021	15:30	PRODUCTION CSG/CM	OWENS/BLODGETT	TRRC	GABBY	
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	24	168
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HRS)		13	168	1,176
AES DRILLING FLUIDS		MUD ENGINEER		1	24	168
TALLY ENERGY		2DD'S, 2 MWD HANDS		4		288
STAGE 3 SEPARATION		SOLIDS CONTROL HANDS		2	12	96
IMPAC		MUD LOGGERS		2	24	168
PERCUSSION PETROLEUM		DRILLING ENGINEER		1	16	32
TENARUS		FIELD REP THREAD REP		1	12	24
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FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	02:00	2.0				CONTINUE RUNNING 5.5",23.0 PPF, P-110 TENNARIS 425 CASING F/ 400" - T/ 2,235' MONITORING DISP @ ACTIVE, CORRECT DISP . **INOVEX REAMER SHOE TO BE SET AT 21,678', 1- JT 5.5" 23# P-110 TXP BTC LINER, ATC LANDING COLLAR TO BE SET AT 21,631', 2- PUP JOINTS, GEO DYNAMICS BURST SUB TO BE SET AT 21,600', 3- PUP JOINTS, GEODYNAMICS BURST SUB TO BE SET AT 21,565', 1- PUP JOINT, CROSSOVER, 33- JOINTS OF 5.5" 23# P-110 WEDGE 425 LINER, MARKER JOINT TO BE SEET AT 20,106', 79- JTS 5.5" 23# P-110 WEDGE 425 LINER, MARKER JOINT TO BE SET AT 16,621', 134- JTS 5.5" 23# P-110 WEDGE 425 LINER, ATC FLOTATION SUB, 6- JTS 5.5" 23# P-110 WEDGE 425 LINER, ATC LINER HANGER TO BE SET AT 10,626', ATC LINER TOP PACKER TO BE SET AT 10,623', AND ATC TIE BACK RECEPTACLE TO BE SET AT 10,623'
02:00	02:30	0.5	PRODUCTION CASING	RUN CSG & CEMENT		STRAIGHTEN AND FIX DRAG CHAIN EXPOSED WIRE.
02:30	09:30	7.0				CONTINUE RUNNING 5.5",23.0 PPF, P-110 TENNARIS 425 CASING F/ 2,235' - T/ 10,590' MONITORING DISP @ ACTIVE, CORRECT DISP . **INOVEX REAMER SHOE TO BE SET AT 21,678', 1- JT 5.5" 23# P-110 TXP BTC LINER, ATC LANDING COLLAR TO BE SET AT 21,631', 2- PUP JOINTS, GEO DYNAMICS BURST SUB TO BE SET AT 21,600', 3- PUP JOINTS, GEODYNAMICS BURST SUB TO BE SET AT 21,565', 1- PUP JOINT, CROSSOVER, 33- JOINTS OF 5.5" 23# P-110 WEDGE 425 LINER, MARKER JOINT TO BE SEET AT 20,106', 79- JTS 5.5" 23# P-110 WEDGE 425 LINER, MARKER JOINT TO BE SET AT 16,621', 134- JTS 5.5" 23# P-110 WEDGE 425 LINER, ATC FLOTATION SUB, 6- JTS 5.5" 23# P-110 WEDGE 425 LINER, ATC LINER HANGER TO BE SET AT 10,626', ATC LINER TOP PACKER TO BE SET AT 10,623', AND ATC TIE BACK RECEPTACLE TO BE SET AT 10,623'
09:30	10:00	0.5	PRODUCTION CASING	RUN CSG & CEMENT		MAKE UP ALLOMAN HANGER, RUN ONE STAND AND INSTALL ROTATING HEAD RUBBER, INSTALL ROTATING HEAD RUBBER. RIG DOWN CASING CREW AND RELEASE.



DAILY DRILLING REPORT

RPT DATE: 11/11/2021

RPT NUM.: 41

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY / JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST A 17-27-5 WA	RIG PHONE: 432-355-3112
AFE #: 21DC005	API #: 32475381390000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/8/2021	DFS: 32.8	DOL: 71
MD/TVD: 21701 FT/11284 FT	24 HR FTG:	HRS DRLG:
PRESENT OPERATIONS: RUNNING 5.5" TIE BACK CASING AT 9,750'		
ACTIVITY PLANNED: SET TIE BACK CASING, PULL LANDING JT, SET AND TEST PACKOFF, NIPPLE DOWN AND WALK RIG TO JEFF EAST 3H		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/10/2021	11/11/2021	None	CEMENTING LINER, T.O.O.H, RUNNING CASING.
BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021			
83 MILE RIG MOVE			
138 HOUR (6.75 DAYS) RIG MOVE			
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00			
14.5 HR WALK (.6 DAYS)			
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021			
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021			
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21			
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21			
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021			
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021			
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021			
TD JEFF EAST 17-27-5 WA 1H @ 13:00 HRS, 11/8/2021			
00:00- 04:00 RUN TIE BACK CASING F/ 9,750' T/ 10,568'. TESTED BOTH SIDES OF TIE BACK AT 2,000 PSI FOR 10 MINUTES CHARTED WITH TEST TRUCK. STRING WEIGHT PRIOR TO LANDING 258K, SET 58K ON TIE BACK RECEPTACLE. LANDED MANDREL WITH 200K. TESTED TIEBACK SEALS AFTER LANDED TO 2,000 PSI FOR 10 MINUTES. TESTED CHOKES OFFLINE			
04:00 – 04:30 BACK OUT LANDING JOINT, RIG DOWN CASING CREW			
04:30 – 06:00 INSTALL PACKOFF, TEST TO 5,000 PSI, 40K OVERPULL			
LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)			
NO ACCIDENTS, INCIDENTS, OR SPILLS			
RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)			
NPT: 0 HRS (82 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$474,930	CUM DRILL COST: \$3,726,438	CUM MUD COST: \$299,292	CUM WELL COST: \$3,726,438
BOP				
LAST BOP TEST:	10/21/21	LAST BOP DRILL:	10/24/21	NEXT BOP TEST: 11/11/21

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801
Production	5.50	23	P110 ICY	21,681	

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
12:00	12.2	82.0	7.0		2	10	16	18	19	13	242,094			62.00	6.00	

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5363	1x16, 4x14, 1x12	0.910	Y	0	21,701				248	
8	6.75	SMITH	XS613	JP 5363	1x16, 4x14, 1x12	0.908	N	19,330	19,750	420	8.0	20	243	52.5
BIT NO. 9 INNER: 1 OUTER: 2 DULL: BT LOC: S SEAL: X GAUGE: I OTHER: CT RP: TD														

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49		300	.00165	95	13.56	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49		300	.00165	95	13.56	290	357	11.5	618

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613	6.75		0.85	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.50	5	2	30	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL
LENGTH: 6,013.81
ROT. WT.:

BHA WT. AIR:
P.U. WT.:

BHA WT. MUD:
S.O. WT.:

HRS. ON JARS:
TORQUE:

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
21,139	93.41	245.43	11,329	-2,703.2	-9,627.3		9,999.6	8.3
21,233	96.04	245.17	11,322	-2,742.4	-9,712.4		10,092.1	2.8
21,327	97.32	248.07	11,311	-2,779.4	-9,798.1		10,184.6	3.4
21,421	97.98	254.13	11,298	-2,809.6	-9,886.2		10,277.6	6.4
21,515	94.15	259.58	11,288	-2,830.8	-9,977.1		10,370.9	7.1
21,609	89.71	265.20	11,285	-2,843.2	-10,070.2		10,463.9	7.6
21,638	90.46	264.59	11,285	-2,845.8	-10,099.1		10,492.4	3.3
21,701	90.46	264.59	11,284	-2,851.7	-10,161.8		10,554.3	

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		855	12,081

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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DAILY DRILLING REPORT

RPT DATE:

RPT NUM.:

RIG:

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC005

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/8/2021

MD/TVD: 21701 FT/11284 FT

PRESENT OPERATIONS: RUNNING 5.5" TIE BACK CASING AT 9,750'

ACTIVITY PLANNED: SET TIE BACK CASING, PULL LANDING JT, SET AND TEST PACKOFF, NIPPLE DOWN AND WALK RIG TO JEFF EAST 3H

JOB: DRILLING

LEASE: UL JEFF EAST A 17-27-5 WA

API #: 32475381390000

ELEVATION: 2681

DFS: 32.8

24 HR FTG:

RIG SUPERV: MICHAEL MCCARTY / JOSH GILMORE

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 71

HRS DRLG:

COST BREAKDOWN

Code	Description	Daily Cost	Vendor	Remarks
2250-40		\$ 18,325	UNIT DRILLING	DAILY RIG COST FOR UNIT BOSS RIG. + \$25/MAN OBM
2250-70	CORVA	\$ 258	CORVA	CORVA DAILY COSTS
2250-70	HOUSING	\$ 515	CIVEO	CAMP HOUSING. X5, TRANSFORMER
2250-70	INTERNET, PHONES, COM'S	\$ 140	INFRASTRUCTURE NETWORKS	INTERNET, PHONES, COM'S
2250-70	PASON	\$ 55	PASON	PASON COMPUTER
2250-70	WATER FLEET DAILY RENTAL.	\$ 560	WATERFLEET	WATER FLEET DAILY
2250-70	WELLDRIIVE	\$ 50	WELLDRIIVE	WELLDRIIVE
2250-75	DIRECTIONAL TOOLS HOT SHOT DELIVERY	\$ 725	TO A TEE	DELIVER LATERAL TOOLS & HAUL BACK
2250-80	DRILLING ADVISOR	\$ 80	FOCUSED DRILLING & COMPLETIONS LLC	DRILLING ADVISOR
2250-80	WELLSITE SUPERVISOR JOSH GILMORE	\$ 2,000	WORKRISE	WELLSITE SUPERVISION
2250-80	WELLSITE SURVISOR MICHAEL MCCARTY	\$ 2,000	WORKRISE	WELLSITE SUPERVISION
2250-85	4 STAR CASING CREW	\$ 12,645	4 STAR USA	# 1498
2250-85	CLEAN AND DRIFT CASING	\$ 2,904	4 STAR USA	# 1698
2250-85	J&T ENERGY CLEAN TANK	\$ 1,853	J&T ENERGY SERVICES, INC	# 71786
2250-85	LABOR TO DELIVER AND RIG UP HOSE	\$ 2,162	SKEWL ENERGY SERVICES	# 13370
2250-85	LABOR TO DUMP TRASH TRAILER	\$ 919		#13381
2250-85	MULHOLLAND CLEAN PREMIX TANK	\$ 1,526	MULHOLLAND ENERGY SERVICES, LLC	# 200277
2250-85	MULHOLLAND CLEAN TANKS	\$ 3,916	MULHOLLAND ENERGY SERVICES, LLC	# 2021110145
2250-90	4 1/2" CET 43 DRILL PIPE RENTAL	\$ 2,418	CASEY EQUIPMENT, LTD	4.5" CET43 DRILL PIPE DAILY RENTAL W/ TAX
2250-90	4 1/2" CET 43 HW DRILL PIPE RENTAL	\$ 720	CASEY EQUIPMENT, LTD	4.5" CET43 DRILL PIPE DAILY RENTAL \$12/JOINT
2250-95	B.O.P POLLUTION CONTAINMENT	\$ 50	JOHNSON SPECIALTY TOOLS (JST)	BOP POLLUTION CONTAINMENT
2250-95	BOP SPOOL	\$ 44	MONAHANS NIPPLE-UP SERVICE	22" B.O.P SPOOL.
2250-95	CHOKES AND FLARE LINE	\$ 742	IRON HORSE TOOLS, INC.	CHOKES AND FLARE LINE
2250-95	FORKLIFT, MANLIFT, LIGHT TOWERS	\$ 578	SKEWL ENERGY SERVICES	FORKLIFT, MANLIFT, LIGHT TOWERS, TRASH TRAILER
2250-95	GENERATOR, PUMP, AND POLYLINE	\$ 169	JACK MILLSAP COMPANY, INC.	GENERATOR, PUMP, AND POLYLINE
2250-95	H2S MONITORING SYSTEM	\$ 81	CANON SAFETY SERVICES	H2S MONITORING
2250-95	INLINE MUD SCREEN	\$ 75	BLACK DIAMOND	INLINE MUD SCREEN
2250-95	MUD VAC & DIESEL SCREEN WASHER	\$ 121	EAST TEXAS SUPPLY	MUD VAC & DIESEL WASHER
2250-95	PREMIX, DRIVE OVER, MANIFOLD DIESEL P	\$ 1,199	SKEWL ENERGY SERVICES	PREMIX, DRIVE OVER, MANIFOLD DIESEL PUMP, TANK FARM
2250-95	PRESSURE WASHER	\$ 55	JOHNSON SPECIALTY TOOLS (JST)	PRESSURE WASHER WITH HEATER
2250-95	PVT & RIG MONITORING	\$ 792	NOV	TOTCO PVT & RIG MONITORING
2250-95	ROCKIT	\$ 492	NABORS DRILLING SOLUTIONS	
2250-95	ROTATING HEAD	\$ 1,430	ADS	
2250-95	SKEWL SERVICE PORTA TOILETS	\$ 525	SKEWL ENERGY SERVICES	
2250-95	STAGE 3	\$ 2,385	STAGE 3 SEPARATION	
2250-105	CASING CREW AND EQUIPMENT FOR PRO	\$ 12,645	4 STAR USA	
2250-110	CEMENTING FOR PRODUCTION LINER	\$ 57,697	WEST TEXAS CEMENTERS	
2250-125	DIESEL FOR MUD	\$ 838	ROLFSON OIL	
2250-125	DRILLING & COMPLETION FLUIDS	\$ 825	AES DRILLING FLUIDS INC	
2250-125	DRILLING MUD CHEMICALS & PERSONAL	\$ 4,940	AES DRILLING FLUIDS INC	
Total:		\$ 139,454		

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	02:30	2.5	PRODUCTION CASING	COND MUD & CIRC		CONTINUE CIRCULATING B/U AT 3.5 BPM W/ 1115 PSI, MONITORING GAIN / LOSS AND RIGGING UP CEMENTERS.
02:30	04:00	1.5	PRODUCTION CASING	OTHER		DROP SETTING BALL AND PUMP DOWN @ 25 SPM W/ LIMITER SET TO 1200 PSI TO LAND IN LINER HANGER RUNNING TOOL. PRESSURE UP TO 3,000 PSI PRESSURE DROP 1950 PSI VERIFYING HANGER IS SET. RELEASE FROM HANGER WITH RUNNING TOOL AND PERFORM SLACK OFF TESTS TO CONFIRM HANGER IS SET 50K DOWN TO TEST. PICK UP, FREE TRAVEL AT 230,000 LB. PRESSURE UP TO 4,000 PSI AND BLOW LOWER BALL SEAT. PICK UP AND PUT 15 ROUNDS TO THE RIGHT IN DRILL PIPE. TO VERIFY CORRECT RELEASE FROM LINER HANGER, CIRCULATE AND VERIFY NO PACK OFF OR OBSTRUCTION IN LINER HANGER PRIOR TO CEMENTING
04:00	07:30	3.5	PRODUCTION CASING	RUN CSG & CEMENT		CLOSE MANUAL T.I.W VALVE ON CEMENT HEAD & PRESSURE UP TO 500 PSI TO VERIFY NO CEMENT OR PRESSURE LEAKAGE INTO SURFACE LINES, TEST LINES TO 8,000 PSI. PUMP 25 BBL 12.8# BARITE SPACER @ 3 BPM, FOLLOWED BY TAIL CEMENT, 955 SX (207.5 BBL) 50% B_POZ+50% CLASS H MIXED AT 14.5 PPG, 1.22 YD, WITH +5% SALT+0.05% SUSPENDACEM 6302+0.6% C-20+0.5% C-478+0.005GPS NOFOAM V1A PUMPED AT 4 BPM W/ 1850 PSI, FOLLOWED BY 5 BBLs OF SUGAR WATER W/ 0.005% BIOCID, WASH UP & PRIME LINE WITH SUGAR WATER, DROP ALLAMON LANDING WIPER DART, FOLLOWED BY 20 BBLs OF FRESHWATER WITH SUGAR & 0.005% BIOCID, PUMPED @ 7 BPM TO PRESSURE @ 50 BBLs GONE SLOWED RATE TO 4 BPM W/ 1126 PSI, CONTINUE PUMPING DISP @ 4 BPM FINAL LIFT PSI : 2900, BUMP PLUG ON TIME PRESSURE UP TO 3850 PSI, HELD PSI FOR 5 MIN'S, BLEED BACK 4.5 BBLs FLOATS HOLDING, GOOD RETURNS THROUGHOUT JOB.
07:30	09:00	1.5	PRODUCTION CASING	OTHER		PRESSURE UP & SET LINER HANGER TOP PACKER, PULL LINER RUNNING TOOL FROM TOP OF LINER PUMPING @ 1 BPM, CONTINUE CIRCULATING BOTTOM'S UP W/ 12.4 PPG OIL BASE MUD @ 335 GPM W/ 2200 PSI, @ 3500 STKS OPEN BYPASS AND TAKE RETURNS OVERBOARD, CONTINUE CIRCULATING 22 BBLs OF CEMENT BACK TO SURFACE, STING BACK INTO THE PBR SUB WITH LINER RUNNING TOOL, OPEN UP CEMENT HEAD LOW TORQUE, S.I.W AGAINST UPPER PIPE RAM'S WITH HCR OPEN AND BOTH CHOKES CLOSED, PRESSURE UP ON BACKSIDE TO 1,500 PSI TO TEST LINER TOP PACKER FOR 15 MINUTES. VERIFYING NO LEAKS FROM DRILL PIPE FROM OPEN LOW TORQUE. GOOD TEST.
09:00	10:30	1.5	PRODUCTION CASING	COND MUD & CIRC		DISPLACE OBM FROM HOLE WITH FRESH WATER WITH 0.05% LIQUID BIOCID @ 10-12 BPM W/ 3375 PSI. CONTINUE PUMPING ADDITIONAL 40 BBLs OF FRESHWATER TO CLEAN FLUID CIRCULATED. LINE UP ON BACKSIDE & TEST LINER TOP TO 1,500 PSI AGAIN FOR 10 MINUTES, GOOD TEST.
10:30	11:00	0.5	PRODUCTION CASING	RUN CSG & CEMENT		RIG DOWN WEST TX CEMENTERS AND ALL CIRCULATING IRON. FILL TRIP TANK WITH FRESHWATER.

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DAILY DRILLING REPORT

RPT DATE: 11/12/2021

RPT NUM.: 42

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WA 1H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY / JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST A 17-27-5 WA	RIG PHONE: 432-355-3112
AFE #: 21DC005	API #: 32475381390000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/8/2021	DFS: 33.0	DOL: 72
MD/TVD: 0 FT/0 FT	24 HR FTG:	HRS DRLG:
PRESENT OPERATIONS: RIG RELEASED FROM JEFF EAST 1H		
ACTIVITY PLANNED: SKID TO JEFF EAST 3H, NIPPLE UP, TEST B.O.P'S, P/U BHA, T.I.H		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/11/2021	11/11/2021	None	RUNNING LINER / RIGGING DOWN CASING CREW / NIPPLING DOWN

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021

83 MILE RIG MOVE

138 HOUR (6.75 DAYS) RIG MOVE

SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00

14.5 HR WALK (.6 DAYS)

SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021

TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021

RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21

PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21

RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021

PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021

TD JEFF EAST 17-27-5 WA 1H @ 13:00 HRS, 11/8/2021

FINAL DRILLING REPORT FOR JEFF EAST 17-27-5 WA 1H RIG RELEASED 11/12/2021 @ 0700 AM

TRANSFERRED 12,081 GALLONS FUEL TO JEFF EAST 3H

LAST B.O.P TEST: 10/21/2021 (DUE AGAIN BY 11/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (7.0 HRS TOTAL)

NPT: 0 HRS (82 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,638,250	DAILY DRILL COST: \$47,549	CUM DRILL COST: \$3,856,632	CUM MUD COST: \$348,865	CUM WELL COST: \$3,856,632
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BOP

LAST BOP TEST:	10/21/21	LAST BOP DRILL:	10/24/21	NEXT BOP TEST:	11/11/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	16.00			125	125
Surface	10.75	45.5	J55	5,008	4,978
Intermediate	7.63	29.7	HCL-80	10,836	10,801
Liner	5.50	23	P110 ICY	21,681	11,284
Liner #2	5.50	23	P-110	10,591	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5363	1x16, 4x14, 1x12	0.910	Y	0	21,701				248	
8	6.75	SMITH	XS613	JP 5363	1x16, 4x14, 1x12	0.908	N	19,330	19,750	420	8.0	20	243	52.5

BIT NO. 9 INNER: 1 OUTER: 2 DULL: BT LOC: S SEAL: X GAUGE: I OTHER: CT RP: TD

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	EQ-2200	5.000	12.000	49		300	.00165	95	13.56	290	357	11.5	618
2	WEATHERFORD	EQ-2200	5.000	12.000	49		300	.00165	95	13.56	290	357	11.5	618

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613	6.75		0.85	7	Monel Collar-5" NMDC	5	2.75	29.06
2	Motor-5 1/4" PDM @ 1.50	5	2	30	8	Monel Collar-5" NMDC	5	2.75	28.57
3	Sub-5" Tandem Float Sub	5.125	2.312	3.74	9	Monel Collar-5" NMDC	4.75	2.688	29.04
4	Monel Collar-5" NMPC	5	2.688	14.49	10	X-Over-5 3/4" BN X-Over Sub	5.312	2.75	2.98
5	MWD Tool-5" NM UBHO Sub	5	2.75	3.57	11	Drill Pipe-4 1/2" Drill Pipe	4.5	3.826	157.4
6	Monel Collar-5" NMDC	5	2.688	30.5	12	Reamer-Drill-N-Ream	5.25	2.562	8.34

DESCRIPTION: DRILL 6.75" LATERAL

LENGTH: 6,013.81

ROT. WT.:

BHA WT. AIR:

P.U. WT.:

BHA WT. MUD:

S.O. WT.:

HRS. ON JARS:

TORQUE:

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
21,139	93.41	245.43	11,329		-2,703.2	-9,627.3	9,999.6	8.3
21,233	96.04	245.17	11,322		-2,742.4	-9,712.4	10,092.1	2.8
21,327	97.32	248.07	11,311		-2,779.4	-9,798.1	10,184.6	3.4
21,421	97.98	254.13	11,298		-2,809.6	-9,886.2	10,277.6	6.4
21,515	94.15	259.58	11,288		-2,830.8	-9,977.1	10,370.9	7.1
21,609	89.71	265.20	11,285		-2,843.2	-10,070.2	10,463.9	7.6
21,638	90.46	264.59	11,285		-2,845.8	-10,099.1	10,492.4	3.3
21,701	90.46	264.59	11,284		-2,851.7	-10,161.8	10,554.3	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel			12,081

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/7/2021	2:55	SPUD	PATRICK OWENS / JOSH	TRRC	DIANA OPERATOR #4	JOB # 270375
9/11/2021	10:20	CE CEMENT- NO CIRC	NICHOLS	TRRC	ERIK HANSON	JOB # 269199
10/20/2021	6:10	INTERMEDIATE CSG/ CM	MICHAEL MCCARTY	TRRC	DIANA OP#4	JOB #269199
11/8/2021	15:30	PRODUCTION CSG/CM	OWENS/BLODGETT	TRRC	GABBY	

[illegible]

