



DAILY DRILLING REPORT

RPT DATE: 9/16/2021

RPT NUM.: 5

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC007

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/13/2021

MD/TVD: 0 FT/0 FT

PRESENT OPERATIONS:

ACTIVITY PLANNED:

JOB: DRILLING

LEASE: UL JEFF EAST 17-27-5 TB

API #: 42475381370000

ELEVATION: 2681

DFS: 3.3

24 HR FTG:

RIG SUPERV: CHRIS BLODGETT/ JOSH GILMORE

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 4

HRS DRLG:

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
9/15/2021	9/16/2021		CEMENTING OPERATIONS

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

NO ACCIDENTS, INCIDENTS, OR SPILLS

RIG DOWNTIME 0 HRS (0 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300 DAILY DRILL COST: \$87,897 CUM DRILL COST: \$531,705 CUM MUD COST: \$10,977 CUM WELL COST: \$531,705

BOP

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

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987

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
1	12.25	HALLIBURTON	GT65DMO	13609332	9x12	0.994	N	3,290	5,025	1,735	14.5	50	163	119.7

BIT NO. 1	INNER: 3	OUTER: 4	DULL: BT	LOC: A	SEAL:	GAUGE: 1	OTHER: WT	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				.00165	95					
2	WEATHERFORD	EQ-2200	5.000	12.000				.00165	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-12.25 HALLIBURTON GT65DMO	12.25		1.5	7	X-Over-NC56 BOX X 6 5/8 REG PIN	8	2.88	3.58
2	Motor-9 5/8" NOV PERFORMANCE, 1.83	9.63	4.5	30.25	8	Drill Collar-8" DRILL COLLARS	8	2.88	90.69
3	Stabilizer-12" NORTRACK 4 BLADE	8.06	2.94	6.69	9	X-Over-4 1/2 XH BOX X NC56 PIN	8	2.25	2.88
4	Monel Collar-UBHO	8.06	3.19	4.24	10	Drill Collar-6 1/2" DC	6.5	2.63	275.17
5	Monel Collar-NON MAG DC	8	3.75	30.55	11	X-Over-4 1/2 IF BOX X 4 1/2 XH PIN	6.5	2.25	3.29
6	Monel Collar-NON MAG DC	8	3.75	28.39	12	Drill Pipe-5" HWDP	6.63	3.06	363

DESCRIPTION: SFC BHA #1

LENGTH: 3,290.00

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
4,291	1.54	321.99	4,253		470.7	-207.9	121.9	0.1
4,384	1.36	319.53	4,346		472.5	-209.4	123.0	0.2
4,477	1.23	314.61	4,439		474.1	-210.8	124.2	0.2
4,571	0.97	316.02	4,533		475.3	-212.1	125.2	0.3
4,664	0.79	317.16	4,626		476.4	-213.1	126.0	0.2
4,756	0.79	314.52	4,718		477.3	-214.0	126.7	0.0
4,849	0.66	322.26	4,811		478.2	-214.7	127.3	0.2
4,942	0.75	325.60	4,904		479.1	-215.4	127.8	0.1

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel			11,013

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPPERTOR #2	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721



DAILY DRILLING REPORT

RPT DATE: 10/4/2021

RPT NUM.: 11

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H	JOB: DRILLING	RIG SUPERV: CHRIS BLODGETT/ ELWYN EVANS
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 TB	RIG PHONE: 432-355-3112
AFE #: 21DC007	API #: 42475381370000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/13/2021	DFS: 8.3	DOL: 22
MD/TVD: 10602 FT/10562 FT	24 HR FTG: 101	HRS DRLG: 7
PRESENT OPERATIONS: DRILLING 9 7/8" CURVE		
ACTIVITY PLANNED: CONTINUE DRILLING 9 7/8" CURVE SECTION		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/3/2021	10/4/2021		TRIPPING, HANDLING BHA, LAYING OUT COLLARS
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			
00:00 – 00:30 PICKED UP STAND AND WASHED DOWN F/10,608 TO BOTTOM, REAMED @ 900 GPM, 25RPM, UNTIL COMPLETELY FREE, DRILLED OFF 1'. PICKED UP TO CONNECTION, DROP PUMPS AND PREPARE TO CONTINUE SLIDING			
00:30 – 04:30 SLIDE & DRILL 9 7/8" INTERMEDIATE CURVE SECTION F/ 10,629' - T/ 10,701' (72' @ 18 FPH) WOB: 20-35K, GPM: 698, PPSI: 2100-2300, DIFF: 350-450, RPM: OSCILLATING, TORQUE: 0 - 17,000 FT/LBS, CIRCULATING RESERVE PIT WITH 9.2 PPG IN / OUT MONITORING FLOW AT CONNECTIONS, W/ RESERVE PIT MARKER			
SLIDING 100% HIGHSIDE GTF			
04:30 – 05:00 TIGHT SLIDING ON TOP OF STAND 10,701' PICKED UP STAND AND WASHED DOWN F/10,602' TO 10,701', REAMED @ 900 GPM, 25RPM, UNTIL COMPLETELY FREE			
05:00 - 06:00 SLIDE & DRILL 9 7/8" INTERMEDIATE CURVE SECTION F/ 10,701' - T/ 10,722' (21' @ 21 FPH) WOB: 35K, GPM: 698, PPSI: 2100-2300, DIFF: 350-450, RPM: OSCILLATING, TORQUE: 0 - 17,000 FT/LBS, CIRCULATING RESERVE PIT WITH 9.2 PPG IN / OUT MONITORING FLOW AT CONNECTIONS, W/ RESERVE PIT MARKER			
SLIDING 100% HIGHSIDE GTF			
LAST B.O.P TEST: 9/23/2021 (DUE AGAIN BY 10/11/2021)			
NO ACCIDENTS, INCIDENTS, OR SPILLS			
DOWNTIME 0.0 HRS (0 HRS TOTAL)			
NPT: 3 HRS (10 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$88,340	CUM DRILL COST: \$917,301	CUM MUD COST: \$42,243	CUM WELL COST: \$917,301
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BOP

LAST BOP TEST: 9/23/21	LAST BOP DRILL:	NEXT BOP TEST: 10/11/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	9.2	27.0	99.0	10.4	1	1	1	2	1	1	74,000		0.40	0.50	1,880		2.60	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
3	9.88	REED	TKC66-A4	A281284	6x15	1.035	N	8,978	10,501	1,523	17.8	45	86	85.6
2	9.88	REED	REED	A279813	6x15	1.035	N	8,610	8,978	368	3.5	45	77	105.1
BIT NO. 3		INNER: 3	OUTER: 4	DULL: BT	LOC: N	SEAL: X	GAUGE: I	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	80	2800	388	.00165	95					
2	WEATHERFORD	EQ-2200	5.000	12.000	80	2800	388	.00165	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-9 7/8" PDC Bit, Halliburton GTD64	9.875	1	1	7	MWD Tool-8 EVO Gap Sub	8	3.25	3.42
2	Motor-8" PDM Fxd 2.12deg 4/5 6.0 0.246	8	3.5	33.34	8	Monel Collar-8in NMDC	8.062	3.75	30.93
3	Monel Collar-8in NMDC	8	3.312	29.93	9	Monel Collar-8in NMDC	8.062	3.75	30.87
4	X-Over-8 EVO X-O Sub	8	3.25	3.14	10	X-Over-8in XO Sub 4.5 IF Box X 6 5/8 Reg t	6.5	2.875	3.82
5	MWD Tool-8 EVO Landing Sub	8	3.25	3.65	11	Drill Pipe-12 1/2in HWDP	6.625	3.062	363
6	MWD Tool-8 EVO Centralizer Sub	8	3.25	8.5					

DESCRIPTION: 9.875 INCH BHA #4 CURVE BHA

LENGTH: 511.60

ROT. WT.: 270,000

BHA WT. AIR:

P.U. WT.: 325,000

BHA WT. MUD:

S.O. WT.: 235,000

HRS. ON JARS:

TORQUE: 28,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
9,978	2.50	220.48	9,939	456.2	-216.8		133.1	0.8
10,071	2.97	218.57	10,032	452.8	-219.6		136.5	0.5
10,163	3.43	220.25	10,124	448.8	-222.8		140.4	0.5
10,256	3.59	224.68	10,217	444.7	-226.7		144.9	0.3
10,348	3.36	226.36	10,309	440.8	-230.7		149.5	0.3
10,441	3.23	223.77	10,402	437.0	-234.4		153.9	0.2
10,532	3.14	252.27	10,492	434.4	-238.6		158.5	1.7
10,563	7.17	246.20	10,523	433.3	-241.2		161.2	13.1

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,203	1,546	15,198

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPPPERATOR #2	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721

[illegible]



DAILY DRILLING REPORT

RPT DATE: 10/5/2021

RPT NUM.: 12

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC007

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/13/2021

MD/TVD: 10730 FT/10688 FT

PRESENT OPERATIONS: DRILLING 9 7/8" CURVE

ACTIVITY PLANNED: DRILL 9 7/8" CURVE AHEAD

JOB: DRILLING

LEASE: UL JEFF EAST 17-27-5 TB

API #: 42475381370000

ELEVATION: 2681

DFS: 9.3

24 HR FTG: 128

RIG SUPERV: CHRIS BLODGETT/ ELWYN EVANS

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 23

HRS DRLG: 5.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/5/2021	10/6/2021		TRIPPING, HANDLING BHA, LAYING OUT COLLARS

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

00:00 - 06:00 SLIDE & DRILL 9 7/8" INTERMEDIATE CURVE SECTION F/ 10,730' - T/ 10,926' (196' @ 33 FPH) WOB: 10-25K, GPM: 500 PPSI: 1300-1500, DIFF: 350-550, RPM: OSCILLATING, TORQUE: 0 - 11,300 FT/LBS, CIRCULATING CLOSED LOOP, MIXING ROUNDS OF CHEMICAL OVER FULL CIRCULATIONS TO MUD UP SYSTEM

SLIDING 100% HIGHSIDE GTF

LAST B.O.P TEST: 9/23/2021 (DUE AGAIN BY 10/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

DOWNTIME 0.0 HRS (0 HRS TOTAL)

NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300 DAILY DRILL COST: \$92,854 CUM DRILL COST: \$1,016,901 CUM MUD COST: \$48,802 CUM WELL COST: \$1,016,901

BOP

LAST BOP TEST: 9/23/21 LAST BOP DRILL: NEXT BOP TEST: 10/11/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	9.1	27.0	99.0	10.3	1	1	1	2	1	1	80,000	0.40	0.50	2,040		2.60

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
5	9.88	BAKER	KYMERAX KMX526	5311896	2x18, 4x14	1.098	N	10,716	10,730	14	2.0	30	165	7.0

BIT NO. 3 INNER: 3 OUTER: 4 DULL: BT LOC: N SEAL: X GAUGE: I 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	77	2700	374	.00165	95					
2	WEATHERFORD	EQ-2200	5.000	12.000	77	2700	374	.00165	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-9 7/8" Kymera PDC Hybrid Bit, KN	9.875	1	1	7	MWD Tool-6.5" EVO Centralizer	6.5	2.812	8.53
2	Motor-7 3/4" PDM, Parkcity 8/9 6.0, Slick	7.75	2.5	29.24	8	MWD Tool-6.5" EVO Gap Sub	6.562	2.812	3.52
3	X-Over-8in XO Sub 4.5 IF Box X 6 5/8 Reg	6.75	2.688	3.91	9	Monel Collar-6.75" NMDC	6.5	3.25	28.23
4	Monel Collar-6.75" NMDC	6.562	3.312	30.13	10	Monel Collar-6.75" NMDC	6.562	3.25	30.07
5	MWD Tool-6.5" EVO X-O Sub	6.5	2.812	3.36					
6	MWD Tool-6.5" EVO Landing Sub	6.688	2.812	3.52					

DESCRIPTION: 9 7/8" CURVE ASSEMBLY #2 BHA #5

LENGTH: 141.51

ROT. WT.: 273,000

BHA WT. AIR:

P.U. WT.: 305,000

BHA WT. MUD:

S.O. WT.: 235,000

HRS. ON JARS:

TORQUE: 11,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
10,256	3.59	224.68	10,217	444.7	-226.7	144.9	0.3	
10,348	3.36	226.36	10,309	440.8	-230.7	149.5	0.3	
10,441	3.23	223.77	10,402	437.0	-234.4	153.9	0.2	
10,532	3.14	252.27	10,492	434.4	-238.6	158.5	1.7	
10,563	7.17	246.20	10,523	433.3	-241.2	161.2	13.1	
10,594	10.16	257.08	10,554	431.9	-245.6	165.8	11.0	
10,625	10.00	253.31	10,584	430.6	-250.8	171.2	2.2	
10,649	11.27	260.50	10,608	429.6	-255.2	175.6	7.6	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,608	13,590

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPPERATOR #	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	00:30	0.5				PICKED UP STAND AND WASHED DOWN F/10,608 TO BOTTOM, REAMED @ 900 GPM, 25RPM, UNTIL COMPLETELY FREE, DRILLED OFF 1'. PICKED UP TO CONNECTION, DROP PUMPS AND PREPARE TO CONTINUE SLIDING
00:30	04:30	4.0	INTERMEDIATE DRILLING	REAMING		SLIDE & DRILL 9 7/8" INTERMEDIATE CURVE SECTION F/ 10,629' - T/ 10,701' (72' @ 18 FPH) WOB: 20-35K, GPM: 698, PPSI: 2100-2300, DIFF: 350-450, RPM: OSCILLATING, TORQUE: 0 - 17,000 FT/LBS, CIRCULATING RESERVE PIT WITH 9.2 PPG IN / OUT MONITORING FLOW AT CONNECTIONS, W/ RESERVE PIT MARKER SLIDING 100% HIGHSIDE GTF
04:30	05:00	0.5	INTERMEDIATE DRILLING	REAMING		TIGHT SLIDING ON TOP OF STAND 10,701' PICKED UP STAND AND WASHED DOWN F/10,602' TO 10,701', REAMED @ 900 GPM, 25RPM, UNTIL COMPLETELY FREE
05:00	06:00	1.0				SLIDE & DRILL 9 7/8" INTERMEDIATE CURVE SECTION F/ 10,701' - T/ 10,716' (15' @ 15 FPH) WOB: 35K, GPM: 698, PPSI: 2100-2300, DIFF: 350-450, RPM: OSCILLATING, TORQUE: 0 - 17,000 FT/LBS, CIRCULATING RESERVE PIT WITH 9.2 PPG IN / OUT MONITORING FLOW AT CONNECTIONS, W/ RESERVE PIT MARKER SLIDING 100% HIGHSIDE GTF
06:00	07:00	1.0	INTERMEDIATE DRILLING	COND MUD & CIRC		BHA NOT ABLE TO ACHIEVE NEEDED BUILD RATES, CONDITION AND CIRCULATE MUD, TRANSFER HEAVY PILL TO SLUG TANK, PUMP PILL
07:00	12:30	5.5	INTERMEDIATE DRILLING	TRIPS		TRIP OUT OF HOLE TO CHANGE OUT MOTOR, BIT, AND BHA
12:30	13:00	0.5	INTERMEDIATE DRILLING	PU BHA		SWAP OUT BHA, LAY DOWN BIT, MOTOR, 8" MONELS
13:00	14:00	1.0	INTERMEDIATE DRILLING	LUBRICATE RIG		RIG SERVICE
14:00	17:30	3.5				P/U NEW BHA, BIT, MOTOR, 6.75" MONELS, INSTALL MWD, SHALLOW TEST P/U BHA #5 (BAKER KYMERA KMX526 9 7/8") 4X15's 2X18 JETS (TFA 1.10) 7.75" MOTOR 8/9, 6.0 STG, SET AT 2.38" 0.22 REV/GAL MAX TRQ 10,010, MAX DIFF 900, FLOW RANGE 400-800, BIT TO SURVEY =76, BIT TO GAMMA = 73', BIT TO BEND: 5.70", KICK PAD OD: 8.31", PRESSURE LOSS: 450
17:30	22:00	4.5	INTERMEDIATE DRILLING	TRIPS		TRIP IN TO BOTTOM
22:00	23:30	1.5				BREAK CIRCULATION, PUMP 73 BBLs NO CIRCULATION, FILL BACKSIDE WITH WATER 457 STKS, 52BBLs EST FLUID TOP @ 740', SHUT IN, PUMP 182STKS 21BBLs FRESH WATER DOWN BACKSIDE, OPEN WELL, BEGIN CIRCULATING 380 GPM TO ESTABLISH GOOD CIRCULATION, ONCE CIRCULATION ESTABLISHED PICK UP OFF BOTTOM, TAKE SURVEY
23:30	00:00	0.5	INTERMEDIATE DRILLING	COND MUD & CIRC		SLIDE & DRILL 9 7/8" INTERMEDIATE CURVE SECTION F/ 10,716' - T/ 10,730' (14' @ 28 FPH) WOB: 12K, GPM: 747 PPSI: 2400-2700, DIFF: 350-550, RPM: OSCILLATING, TORQUE: 0 - 9,500 FT/LBS, CIRCULATING RESERVE PIT WITH 9.2 PPG IN / OUT MONITORING FLOW AT CONNECTIONS, W/ RESERVE PIT MARKER SLIDING 100% HIGHSIDE GTF
			INTERMEDIATE DRILLING	DRILLING		



DAILY DRILLING REPORT

RPT DATE: 10/6/2021

RPT NUM.: 13

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H	JOB: DRILLING	RIG SUPERV: CHRIS BLODGETT/ JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 TB	RIG PHONE: 432-355-3112
AFE #: 21DC007	API #: 42475381370000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/13/2021	DFS: 10.3	DOL: 24
MD/TVD: 11026 FT/10927 FT	24 HR FTG: 296	HRS DRLG: 10.5
PRESENT OPERATIONS: RUNNING 7 5/8 INTERMEDIATE CASING AT 1877'		
ACTIVITY PLANNED: RUN CASING TO 11,001', CEMENT, RIG DOWN AND WALK RIG TO JEFF EAST 4H		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/6/2021	10/7/2021		TRIPPING, 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			
00:00 - 06:00 RUN 7 5/8" INTERMEDIATE CASING F/ 1,877' T/ 8,500". FILLING PIPE AS NEEDED, NO RETURNS TO SURFACE. MONITORING WELL ON TRIP TANK			
LAST B.O.P TEST: 9/23/2021 (DUE AGAIN BY 10/11/2021)			
NO ACCIDENTS, INCIDENTS, OR SPILLS			
DOWNTIME 0.0 HRS (0 HRS TOTAL)			
NPT: 0 HRS (10 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$59,213	CUM DRILL COST: \$1,078,331	CUM MUD COST: \$65,656	CUM WELL COST: \$1,078,331
BOP				
LAST BOP TEST:	9/23/21	LAST BOP DRILL:	NEXT BOP TEST:	10/11/21

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,902

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)				PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	9.3	28.0	20.0	9.1	2	1	1	2	1	3	84,000		0.20	0.50	2,640		1.50		

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
5	9.88	BAKER	KYMERAX KMX526	5311896	2x18, 4x14	1.098	N	10,730	11,026	296	10.5	35	165	28.2

BIT NO. 5	INNER: 2	OUTER: 3	DULL: BT	LOC: G	SEAL: N	GAUGE: I	OTHER: WT	RP: TD
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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	80	2850	375	.00165	95					
2	WEATHERFORD	EQ-2200	5.000	12.000	80	2850	375	.00165	95					

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-9 7/8" Kymera PDC Hybrid Bit, KN	9.875	1	1	7	MWD Tool-6.5" EVO Centralizer	6.5	2.812	8.53
2	Motor-7 3/4" PDM, Parkcity 8/9 6.0, Slick	7.75	2.5	29.24	8	MWD Tool-6.5" EVO Gap Sub	6.562	2.812	3.52
3	X-Over-8in XO Sub 4.5 IF Box X 6 5/8 Reg	6.75	2.688	3.91	9	Monel Collar-6.75" NMDC	6.5	3.25	28.23
4	Monel Collar-6.75" NMDC	6.562	3.312	30.13	10	Monel Collar-6.75" NMDC	6.562	3.25	30.07
5	MWD Tool-6.5" EVO X-O Sub	6.5	2.812	3.36					
6	MWD Tool-6.5" EVO Landing Sub	6.688	2.812	3.52					

DESCRIPTION: 9 7/8" CURVE ASSEMBLY #2 BHA #5	BHA WT. AIR:	BHA WT. MUD:	HRS. ON JARS:
LENGTH: 141.51	P.U. WT.: 305,000	S.O. WT.: 230,000	TORQUE: 12,000
ROT. WT.: 273,000			

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
10,741	20.27	256.63	10,697	424.4	-278.9	199.9	12.5	
10,772	24.05	257.52	10,725	421.8	-290.3	211.6	12.2	
10,803	27.54	256.91	10,753	418.8	-303.4	225.0	11.3	
10,834	31.36	258.40	10,780	415.5	-318.3	240.3	12.6	
10,865	34.04	257.71	10,806	412.1	-334.7	257.0	8.7	
10,896	37.45	256.98	10,832	408.1	-352.4	275.1	11.1	
10,927	40.99	255.78	10,856	403.5	-371.4	294.6	11.7	
10,950	43.74	255.87	10,873	399.7	-386.4	310.1	12.0	

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,509	12,081

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPPERTOR #2	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721
10/6/2021	11:00	INTERMEDIATE	PATRICK OWENS	TRRC	OPERATOR MARY	INTERMEDIATE CASING AND CEMENT

[illegible]



DAILY DRILLING REPORT

RPT DATE: 10/7/2021

RPT NUM.: 14

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC007
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/13/2021
MD/TVD: 11026 FT/10927 FT
PRESENT OPERATIONS: RELEASE RIG @ 1900 HRS, 10/7/2021
ACTIVITY PLANNED: WALK RIG TO ULJEFF EAST 4H, RIG UP AND M/U BHA

JOB: DRILLING
LEASE: ULJEFF EAST 17-27-5 TB
API #: 42475381370000
ELEVATION: 2681
DFS: 11.1
24 HR FTG:

RIG SUPERV: CHRIS BLODGETT/ ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 25
HRS DRLG:

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
10/7/2021	10/8/2021		CEMENTING OPERATIONS, WALKING RIG

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021
83 MILE RIG MOVE
138 HOUR (6.75 DAYS) RIG MOVE
SURFACE RIG RELEASE F/ ULJEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00
14.5 HR WALK (.6 DAYS)
SPUD ULJEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021
TD ULJEFF 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 @ 1900 HRS, 10/7/2021

TRANSFERRED 11,194 GALLONS FUEL TO ULJEFF 17-27-5 4H

LAST B.O.P TEST: 9/23/2021 (DUE AGAIN BY 10/11/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

DOWNTIME 0.0 HRS (0 HRS TOTAL)

NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$517,327	CUM DRILL COST: \$1,615,378	CUM MUD COST: \$68,765	CUM WELL COST: \$1,615,378
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BOP

LAST BOP TEST:	9/23/21	LAST BOP DRILL:	NEXT BOP TEST:	10/11/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,902

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	9.2	29.0	53.0	8.9	1	1	1	2	1	3	87,000		0.10	0.30	4,960	0.50

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
5	9.88	BAKER	KYMERAX KMX526	5311896	2x18, 4x14	1.098	N	10,730	11,026	296	10.5	35	165	28.2

BIT NO. 5	INNER: 2	OUTER: 3	DULL: BT	LOC: G	SEAL: N	GAUGE: I	OTHER: WT	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	80	2850	375	.00165	95					
2	WEATHERFORD	EQ-2200	5.000	12.000	80	2850	375	.00165	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-9 7/8" Kymera PDC Hybrid Bit, KN	9.875	1	1	7	MWD Tool-6.5" EVO Centralizer	6.5	2.812	8.53
2	Motor-7 3/4" PDM, Parkcity 8/9 6.0, Slick	7.75	2.5	29.24	8	MWD Tool-6.5" EVO Gap Sub	6.562	2.812	3.52
3	X-Over-8in XO Sub 4.5 IF Box X 6 5/8 Reg	6.75	2.688	3.91	9	Monel Collar-6.75" NMDC	6.5	3.25	28.23
4	Monel Collar-6.75" NMDC	6.562	3.312	30.13	10	Monel Collar-6.75" NMDC	6.562	3.25	30.07
5	MWD Tool-6.5" EVO X-O Sub	6.5	2.812	3.36					
6	MWD Tool-6.5" EVO Landing Sub	6.688	2.812	3.52					

DESCRIPTION: 9 7/8" CURVE ASSEMBLY #2 BHA #5

LENGTH: 141.51

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
10,741	20.27	256.63	10,697	424.4	-278.9	199.9	12.5	
10,772	24.05	257.52	10,725	421.8	-290.3	211.6	12.2	
10,803	27.54	256.91	10,753	418.8	-303.4	225.0	11.3	
10,834	31.36	258.40	10,780	415.5	-318.3	240.3	12.6	
10,865	34.04	257.71	10,806	412.1	-334.7	257.0	8.7	
10,896	37.45	256.98	10,832	408.1	-352.4	275.1	11.1	
10,927	40.99	255.78	10,856	403.5	-371.4	294.6	11.7	
10,950	43.74	255.87	10,873	399.7	-386.4	310.1	12.0	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		887	11,194

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPPERATOR #2	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721
10/6/2021	11:00	INTERMEDIATE	PATRICK OWENS	TRRC	OPERATOR MARY	INTERMEDIATE CASING AND CEMENT

[illegible]



DAILY DRILLING REPORT

RPT DATE: 11/13/2021

RPT NUM.: 15

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY/JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 TB	RIG PHONE: 432-355-3112
AFE #: 21DC007	API #: 42475381370000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/13/2021	DFS: 11.8	DOL: 62
MD/TVD: 11026 FT/10923 FT	24 HR FTG:	HRS DRLG: 2.5
PRESENT OPERATIONS: DRILLING OUT SHOE TRACK CEMENT AT 10,930'		
ACTIVITY PLANNED: CHANGE OUT SWIVEL PACKING, DISPLACE WELL WITH OBM, DRILL FLOAT SHOE, PERFORM FIT, DRILL CURVE, TOOH FOR LATERAL BHA		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/12/2021	10/13/2021	None	WALKING RIG, AWARENESS
BEGIN RIGVE 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			
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021			
00:00 – 00:30 DRILLING SHOE TRACK CEMENT F/ 10,930' T/ 10,968'. 300-350 GPM, WOB 5-15K, RPM- 15, SPP- 1,600 PSI, DIFF 1-200 PSI, TQ: 3-6,000 LB			
00:30 – 02:00 CHANGE OUT LEAKING SWIVEL PACKING			
02:00 – 03:00 SLIP AND CUT 120' DRILLING LINE. DISPLACE OBM WHILE SLIPPING AND CUTTING DRILL LINE			
03:00 – 03:30 SERVICE RIG, CHANGE OUT TOPDRIVE GRABBER DIES			
03:30 – 04:30 DRILL CEMENT, SHOE AND RATHOLE F/ 10,968' T/ 11,026'. 300-350 GPM, WOB 5-15K, RPM- 15, SPP- 1,600 PSI, DIFF 1-200 PSI, TQ: 3-6,000 LB. CIRCULATE OFF BOTTOM UNTIL MUD UNIFORM 12.0 PPG IN/OUT.			
04:30 – 05:00 PULL BACK INSIDE SHOE TO PERFORM FIT TO 13.2# EQUIVALENT AT 10,923' TVD. TEST PRESSURE 681 PSI, TEST MW 12.0 PPG. INITIATE PUMPS @ 3 SPM = 0.25 BPM, MONITOR AND RECORD PRESSURES EVERY 1/4 BBL, INCREASED PRESSURE TO 681 PSI 1 BBL INTO TEST. FIT WAS SUCCESSFUL			
05:00 – 06:00 DRILL 6 3/4" CURVE F/ 11,026' T/ 11,070' (44' @ 44 FPH) GPM 300, DIFF 4-500 PSI, WOB 20-25K, TF- HS. DRILLING UNRESTRICTED DOWN FLOWLINE WITH 100% RETURNS WITH VENT LINE MW 12.0PPG IN/OUT. BGG 48-60U			
LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)			
NO ACCIDENTS, INCIDENTS, OR SPILLS			
DOWNTIME 0.0 HRS (0 HRS TOTAL)			
NPT: 0 HRS (10 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$54,636	CUM DRILL COST: \$1,705,957	CUM MUD COST: \$70,557	CUM WELL COST: \$1,705,957
BOP				
LAST BOP TEST:	11/12/21	LAST BOP DRILL:	11/12/21	NEXT BOP TEST: 12/2/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,902

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	76.0	7.2		2	10	15	18	17	12	240,900			62.40	6.30	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	BAKER HUGHES	KYMER A K5M323	532443	2x22, 1x14	0.890	N	0						
5	9.88	BAKER	KYMER A KMX526	5311896	2x18, 4x14	1.098	N	10,730	11,026	296	10.5	35	165	28.2

BIT NO. 5	INNER: 2	OUTER: 3	DULL: BT	LOC: G	SEAL: N	GAUGE: I	OTHER: WT	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	80	2850	375	.00165	95	0			0	0
2	WEATHERFORD	EQ-2200	5.000	12.000	80	2850	375	.00165	95	0			0	0

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4 Kymera K5M323	6.75		0.75	7	Monel Collar-5" NMDC	4.874	2.688	29.28
2	Motor-5" PDM 2.25 FBH 6/7 lb 8.0 stg .81	5		28.21	8	Monel Collar-5" NMDC	5	2.812	29.76
3	Monel Collar-5" NMPC	5	2.688	14.59	9	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
4	Sub-NM UBHO Sub	5.062	2.688	2.6					
5	Monel Collar-5" NMDC	5	2.812	29.72					
6	Monel Collar-5" NMDC	5	2.812	29.68					

DESCRIPTION: CURVE BHA	BHA WT. AIR:	BHA WT. MUD:	HRS. ON JARS:
LENGTH: 167.89	P.U. WT.:	S.O. WT.:	TORQUE:
ROT. WT.:			

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
10,741	20.27	256.63	10,697	424.4	-278.9		199.9	12.5
10,772	24.05	257.52	10,725	421.8	-290.3		211.6	12.2
10,803	27.54	256.91	10,753	418.8	-303.4		225.0	11.3
10,834	31.36	258.40	10,780	415.5	-318.3		240.3	12.6
10,865	34.04	257.71	10,806	412.1	-334.7		257.0	8.7
10,896	37.45	256.98	10,832	408.1	-352.4		275.1	11.1
10,927	40.99	255.78	10,856	403.5	-371.4		294.6	11.7
10,950	43.74	255.87	10,873	399.7	-386.4		310.1	12.0

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		362	10,832

NOTIFICATIONS

[illegible]

TIME BREAKDOWN						
FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
07:00	09:00	2.0	INTERMEDIATE CASING	SKID/WALK RIG		SKID RIG TO JEFF EAST 3H, VERIFY WELL CENTER.
09:00	10:00	1.0	INTERMEDIATE CASING	NIPPLE UP B.O.P.		NIPPLE UP B.O.P, FLOW LINE, INSTALL MUD LINES, RIG UP TURN BUCKLES AND LOCK DOWN CACTUS SPEED HEAD.
10:00	13:00	3.0	INTERMEDIATE CASING	TEST B.O.P.		TEST BOPS AS FOLLOWS, RAMS, KILL LINE, TESTED ALL CHOKE LINES OFFLINE WHILE CIRCULATING TEST CHOKES AND VALVES, INSIDE BOP AND SAFETY VALVES, MANUAL HCR, MANUAL KILL LINE VALVE TO 250/8500 PSI, ANNULAR 250/2500 PSI, TOP DRIVE, ETC BACK TO PUMPS 250/7250 PSI FOR 5 MIN'S HIGH / 5 MIN'S LOW. PULL TEST PLUG & RIG DOWN TESTER. **SAFETY MEETING OVER TESTING PROCEDURE, PRESSURES AND JOB STEPS WITH UNIT, B.O.P RAM TESTER.
13:00	13:30	0.5	INTERMEDIATE CASING	OTHER		INSTALL WEAR BUSHING, CLOSE BLIND RAMS AND CLOSE WELLHEAD CASING VALVE.
13:30	15:30	2.0	INTERMEDIATE CASING	PU BHA		P/U 6 3/4" CURVE BHA AS FOLLOWS: ULTERRA U611S, 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 **SAFETY MEETING AND JSA REVIEW OVER TRIPPING IN HOLE WITH TM-120 WITH ALL UNIT PERSONAL FOCUSING ON HAND PLACEMENT AND ELIMINATING POTENTIAL EXPOSURES
15:30	18:30	3.0	INTERMEDIATE CASING	TRIPS		TRIP IN HOLE WITH BHA #5 F/ 105' - T/ 4,963' TAKING DISPLACEMENT OVER BOARD, FILL PIPE W/ FRESHWATER FROM SLUGGING TANK. **SAFETY MEETING AND JSA REVIEW OVER TRIPPING IN HOLE WITH TM-120 WITH ALL UNIT PERSONAL FOCUSING ON HAND PLACEMENT AND ELIMINATING POTENTIAL EXPOSURES.
18:30	20:30	2.0	INTERMEDIATE CASING	DRILLING		DRILL CEMENT, DV TOOL AND LANDING COLLAR F/ 4,963' - T/ 4,981' GPM: 250, PPSI: 700, RPM'S: 15, TORQUE: 2300 FT/LBS, CIRCULATING RESERVE PIT TAKING RETURNS OVERBOARD. S.I.W AGAINST UPPER PIPE RAMS & PRESSURE UP TO 1500 PSI FOR 10 MIN'S TO VERIFY DV TOOL ISOLATION. DV TOOL @ 4,975' LANDING COLLAR @ 5,062'

20:30	23:00	2.5				TRIP IN HOLE AND TAG CEMENT @ 10'914', TAKING RETURNS OVER BOARD.
			INTERMEDIATE CASING	TRIPS		
23:00	23:30	0.5				*HELD BOP DRILL AND WELL CONTROL EQUIPMENT ORIENTATION WITH CREW DURING CASING TEST
			INTERMEDIATE CASING	OTHER		FILL PIPE AND CIRCULATE 1000 STROKES, SHUT DOWN CLOSE PIPE RAMS, PERFORM 30 MIN CASING TEST HOLDING 1500PSI
23:30	00:00	0.5				DRILL FLOAT COLLAR AND CEMENT F/ 10,914' T/ 10'930'. 300-350 GPM, WOB 5-15K, RPM- 15, SPP- 1,600 PSI, DIFF 1-200 PSI, TQ- 3-6,000 LB
			INTERMEDIATE CASING	DRILLING		FLOAT COLLAR @ 10,917'
TOTAL HRS		17.0				

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ver 11.04.2021 TW



DAILY DRILLING REPORT

RPT DATE: 11/13/2021

RPT NUM.: 15

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H

FIELD: PHANTOM (WOLFCAMP)

APE #: 21DC007

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/13/2021

MD/TVD: 11026 FT/10923 FT

PRESENT OPERATIONS: DRILLING OUT SHOE TRACK CEMENT AT 10,930'

ACTIVITY PLANNED: CHANGE OUT SWIVEL PACKING, DISPLACE WELL WITH OBM, DRILL FLOAT SHOE, PERFORM FIT, DRILL CURVE, TOOH FOR LATERAL BHA

JOB: DRILLING

LEASE: UL JEFF EAST 17-27-5 TB

API #: 42475381370000

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: 62

HRS DRLG: 2.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/12/2021	10/13/2021	None	WALKING RIG, AWARENESS

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

RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021

00:00 – 00:30 DRILLING SHOE TRACK CEMENT F/ 10,930' T/ 10,968'. 300-350 GPM, WOB 5-15K, RPM- 15, SPP- 1,600 PSI, DIFF 1-200 PSI, TQ- 3-6,000 LB

00:30 – 02:00 CHANGE OUT LEAKING SWIVEL PACKING

02:00 – 03:00 SLIP AND CUT 120' DRILLING LINE. DISPLACE OBM WHILE SLIPPING AND CUTTING DRILL LINE

03:00 – 03:30 SERVICE RIG, CHANGE OUT TOPDRIVE GRABBER DIES

03:30 – 04:30 DRILL CEMENT, SHOE AND RATHOLE F/ 10,968' T/ 11,026'. 300-350 GPM, WOB 5-15K, RPM- 15, SPP- 1,600 PSI, DIFF 1-200 PSI, TQ- 3-6,000 LB. CIRCULATE OFF BOTTOM UNTIL MUD UNIFORM 12.0 PPG IN/OUT.

04:30 – 05:00 PULL BACK INSIDE SHOE TO PERFORM FIT TO 13.2# EQUIVILENT AT 10,923' TVD. TEST PRESSURE 681 PSI, TEST MW 12.0 PPG. INITIATE PUMPS @ 3 SPM = 0.25 BPM, MONITOR AND RECORD PRESSURES EVERY 1/4 BBL, INCREASED PRESSURE TO 681 PSI 1 BBL INTO TEST. FIT WAS SUCCESSFUL

COST DATA

DRILLING AFE AMT: \$3,681,300 DAILY DRILL COST: \$54,636 CUM DRILL COST: \$1,705,957 CUM MUD COST: \$70,557 CUM WELL COST: \$1,705,957

BOP

LAST BOP TEST: 11/12/21 LAST BOP DRILL: 11/12/21 NEXT BOP TEST: 12/2/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,902

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	76.0	7.2		2	10	15	18	17	12	240,900			62.40	6.30	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	BAKER HUGHES	KYMER A KSM323	532443	2x22, 1x14	0.890	N	0						
5	9.88	BAKER	KYMER A KMX526	5311896	2x18, 4x14	1.098	N	10,730	11,026	296	10.5	35	165	28.2

BIT NO. 5 INNER: 2 OUTER: 3 DULL: BT LOC: G SEAL: N GAUGE: I OTHER: WT 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	80	2850	375	.00165	95	0			0	0
2	WEATHERFORD	EQ-2200	5.000	12.000	80	2850	375	.00165	95	0			0	0

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4 Kymera KSM323	6.75		0.75	7	Monel Collar-5" NMDC	4.874	2.688	29.28
2	Motor-5" PDM 2.25 FBH 6/7 lb 8.0 stg .81	5		28.21	8	Monel Collar-5" NMDC	5	2.812	29.76
3	Monel Collar-5" NMPC	5	2.688	14.59	9	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
4	Sub-NM UBHO Sub	5.062	2.688	2.6					
5	Monel Collar-5" NMDC	5	2.812	29.72					
6	Monel Collar-5" NMDC	5	2.812	29.68					

DESCRIPTION: CURVE BHA

LENGTH: 167.89

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
10,741	20.27	256.63	10,697		424.4	-278.9	199.9	12.5
10,772	24.05	257.52	10,725		421.8	-290.3	211.6	12.2
10,803	27.54	256.91	10,753		418.8	-303.4	225.0	11.3
10,834	31.36	258.40	10,780		415.5	-318.3	240.3	12.6
10,865	34.04	257.71	10,806		412.1	-334.7	257.0	8.7
10,896	37.45	256.98	10,832		408.1	-352.4	275.1	11.1
10,927	40.99	255.78	10,856		403.5	-371.4	294.6	11.7
10,950	43.74	255.87	10,873		399.7	-386.4	310.1	12.0

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		362	10,832

NOTIFICATIONS

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
07:00	09:00	2.0	INTERMEDIATE CASING	SKID/WALK RIG		SKID RIG TO JEFF EAST 3H, VERIFY WELL CENTER.
09:00	10:00	1.0	INTERMEDIATE CASING	NIPPLE UP B.O.P.		NIPPLE UP B.O.P, FLOW LINE, INSTALL MUD LINES, RIG UP TURN BUCKLES AND LOCK DOWN CACTUS SPEED HEAD.
10:00	13:00	3.0	INTERMEDIATE CASING	TEST B.O.P.		TEST BOPS AS FOLLOWS, RAMS, KILL LINE, TESTED ALL CHOKE LINES OFFLINE WHILE CIRCULATING TEST CHOKES AND VALVES, INSIDE BOP AND SAFETY VALVES, MANUAL HCR, MANUAL KILL LINE VALVE TO 250/8500 PSI, ANNULAR 250/2500 PSI, TOP DRIVE, ETC BACK TO PUMPS 250/7250 PSI FOR 5 MIN'S HIGH / 5 MIN'S LOW. PULL TEST PLUG & RIG DOWN TESTER. **SAFETY MEETING OVER TESTING PROCEDURE, PRESSURES AND JOB STEPS WITH UNIT, B.O.P RAM TESTER.
13:00	13:30	0.5	INTERMEDIATE CASING	OTHER		INSTALL WEAR BUSHING, CLOSE BLIND RAMS AND CLOSE WELLHEAD CASING VALVE.
13:30	15:30	2.0	INTERMEDIATE CASING	PU BHA		P/U 6 3/4" CURVE BHA AS FOLLOWS: 6 3/4 Kymera K5M323 TFA: 0.89 (2x22, 1x14), SN-5324453 , 5" MOTOR 5" PDM 2.25 FBH 6/7 lb 8.0 stg .81 r/gL, 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 TEST MWD @ 250 GPM WITH 630 PSI GOOD TEST. **SAFETY MEETING AND JSA REVIEW OVER TRIPPING IN HOLE WITH TM-120 WITH ALL UNIT PERSONAL FOCUSING ON HAND PLACEMENT AND ELIMINATING POTENTIAL EXPOSURES
15:30	18:30	3.0	INTERMEDIATE CASING	TRIPS		TRIP IN HOLE WITH BHA #5 F/ 105' - T/ 4,963' TAKING DISPLACEMENT OVER BOARD, FILL PIPE W/ FRESHWATER FROM SLUGGING TANK. **SAFETY MEETING AND JSA REVIEW OVER TRIPPING IN HOLE WITH TM-120 WITH ALL UNIT PERSONAL FOCUSING ON HAND PLACEMENT AND ELIMINATING POTENTIAL EXPOSURES.
18:30	20:30	2.0	INTERMEDIATE CASING	DRILLING		DRILL CEMENT, DV TOOL AND LANDING COLLAR F/ 4,963' - T/ 4,981' GPM: 250, PPSI: 700, RPM'S: 15, TORQUE: 2300 FT/LBS, CIRCULATING RESERVE PIT TAKING RETURNS OVERBOARD. S.I.W AGAINST UPPER PIPE RAMS & PRESSURE UP TO 1500 PSI FOR 10 MIN'S TO VERIFY DV TOOL ISOLATION. DV TOOL @ 4,975' LANDING COLLAR @ 5,062'

20:30	23:00	2.5				TRIP IN HOLE AND TAG CEMENT @ 10'914', TAKING RETURNS OVER BOARD.
			INTERMEDIATE CASING	TRIPS		*HELD BOP DRILL AND WELL CONTROL EQUIPMENT ORIENTATION WITH CREW DURING CASING TEST
23:00	23:30	0.5	INTERMEDIATE CASING	OTHER		FILL PIPE AND CIRCULATE 1000 STROKES, SHUT DOWN CLOSE PIPE RAMS, PERFORM 30 MIN CASING TEST HOLDING 1500PSI
23:30	00:00	0.5				DRILL FLOAT COLLAR AND CEMENT F/ 10,914' T/ 10'930'. 300-350 GPM, WOB 5-15K, RPM- 15, SPP- 1,600 PSI, DIFF 1-200 PSI, TQ- 3-6,000 LB
			INTERMEDIATE CASING	DRILLING		FLOAT COLLAR @ 10,917'
TOTAL HRS		17.0				

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DAILY DRILLING REPORT

RPT DATE: 11/14/2021

RPT NUM.: 16

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC007
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/13/2021
MD/TVD: 11344 FT/11014 FT
PRESENT OPERATIONS: MAKING UP LATERAL BHA
ACTIVITY PLANNED: TIH, DRILL 6 3/4" PRODUCTION LATERAL

JOB: DRILLING
LEASE: UL JEFF EAST 17-27-5 TB
API #: 42475381370000
ELEVATION: 2681
DFS: 12.8
24 HR FTG: 318

RIG SUPERV: MICHAEL MCCARTY/JOSH GILMORE
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 63
HRS DRLG: 12.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/13/2021	10/14/2021	None	HOUSEKEEPING, FIT FOR DUTY CHECKS

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
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021

00:00 – 00:30 P/U & M/U 6 3/4" LATERAL BHA #7 AS FOLLOWS: BAKER DD406TWH, 3X14 3X16 JETS, 1.04 TFA, SN-5322124, 5.0" MOTOR 6/7 8.0STG FIXED SET AT 1.83 DEG 0.81REV/GAL, MAX TQ 7,760, MAX DIFF 1800, BIT TO BEND 3.43', KICK PAD OD 5.25" W/ 6.5" STAB, 1- 6.5" NORTRACK STAB., 1-4.75" NMPC, 5" UBHO SUB, 3-5" NMDC, 1-5" NM FLEX DC, 5.75" XO, 1 STAND HWDP, DRILL AND REAM, 25 STANDS DP, 5" POWER PULSE AGITATOR, SN-PG525-0055 (2640' BACK), 35 STANDS DP, 5" ACTIVE PULSE AGITATOR, SN PG525-0057 (5940' BACK) TEST MWD @ 250 GPM W/ 1600 PSI (GOOD TEST)

00:30 – 06:00 TIH WITH LATERAL BHA. PICK UP FIRST AGITATOR AT 2640'. PUMP PRESSURE BEFORE PICKING UP AGITATOR- 2355 PSI, AFTER 2930 PSI AT 300 GPM. CONTINUE TIH AND PICK UP SECOND AGITATOR @ 5940'. MONITORING WELL AT MUD TANKS, FILLING PIPE EVERY 30 STANDS. TIH TO 11,294'. RE LOG F/ 11,294' – T/ 11,344' FOR GAMMA OVERLAP.

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

DOWNTIME 0.0 HRS (0 HRS TOTAL)

NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300 DAILY DRILL COST: \$70,839 CUM DRILL COST: \$1,776,796 CUM MUD COST: \$80,976 CUM WELL COST: \$1,776,796

BOP

LAST BOP TEST: 11/12/21 LAST BOP DRILL: 11/12/21 NEXT BOP TEST: 12/2/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,902

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	12.0	62.0	6.4		2	9	13	16	17	13	235,578			61.90	6.00	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
7	6.75	BAKER HUGHES	DD406TWH	5322124	3x16, 3x14	1.040	N	0						
6	6.75	BAKER HUGHES	KYMER A K5M323	532443	2x22, 1x14	0.890	N	11,026	11,344	318	10.0	35	243	31.8

BIT NO. 7 INNER: 1 OUTER: 2 DULL: WT LOC: S SEAL: 8 GAUGE: I OTHER: NO 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	80	4585	350	.00165	95	0			0	0
2	WEATHERFORD	EQ-2200	5.000	12.000	80	4585	350	.00165	95	0			0	0

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker DD406TWH, 3-14',3-	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5" PDM 1.83 FBH 6/7 lb 8.0 stg .81	5		27.85	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	NM UBHO Sub	5.062	2.688	2.6	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Stabilizer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA

LENGTH: 5,940.87

ROT. WT.: 190,000

BHA WT. AIR:

P.U. WT.: 22,000

BHA WT. MUD:

S.O. WT.: 170,000

HRS. ON JARS:

TORQUE: 9,500

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
10,834	31.36	258.40	10,780	415.5	-318.3	240.3	12.6	
10,865	34.04	257.71	10,806	412.1	-334.7	257.0	8.7	
10,896	37.45	256.98	10,832	408.1	-352.4	275.1	11.1	
10,927	40.99	255.78	10,856	403.5	-371.4	294.6	11.7	
10,950	43.74	255.87	10,873	399.7	-386.4	310.1	12.0	
11,093	59.16	253.41	10,961	369.9	-493.9	421.1	10.9	
11,219	79.34	256.13	11,006	339.3	-607.0	537.9	16.1	
11,281	86.81	255.25	11,013	324.1	-666.6	599.2	12.1	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,105	9,727

NOTIFICATIONS

[illegible]

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	00:30	0.5	INTERMEDIATE CASING	DRILLING		DRILLING SHOE TRACK CEMENT F/ 10,930' T/ 10,968'. 300-350 GPM, WOB 5-15K, RPM- 15, SPP- 1,600 PSI, DIFF 1-200 PSI, TQ- 3-6,000 LB
00:30	02:00	1.5	INTERMEDIATE CASING	OTHER		CHANGE OUT LEAKING SWIVEL PACKING
02:00	03:00	1.0	INTERMEDIATE CASING	CUT OFF DRILL LINE		SLIP AND CUT 120' DRILLING LINE. DISPLACE OBM WHILE SLIPPING AND CUTTING DRILL LINE
03:00	03:30	0.5	INTERMEDIATE CASING	RIG SERVICE		SERVICE RIG, CHANGE OUT TOPDRIVE GRABBER DIES
03:30	04:30	1.0	INTERMEDIATE CASING	DRILLING		DRILL CEMENT, SHOE AND RATHOLE F/ 10,968' T/ 11,026'. 300-350 GPM, WOB 5-15K, RPM- 15, SPP- 1,600 PSI, DIFF 1-200 PSI, TQ- 3-6,000 LB. CIRCULATE OFF BOTTOM UNTIL MUD UNIFORM 12.0 PPG IN/OUT
04:30	05:00	0.5	INTERMEDIATE CASING	OTHER		PULL BACK INSIDE SHOE TO PERFORM FIT TO 13.2# EQUIVILANT AT 10,923' TVD. TEST PRESSURE 681 PSI, TEST MW 12.0 PPG. INITIATE PUMPS @ 3 SPM = 0.25 BPM, MONITOR AND RECORD PRESSURES EVERY 1/4 BBL, INCREASED PRESSURE TO 681 PSI 1 BBL INTO TEST. FIT WAS SUCCESSFUL
05:00	16:00	11.0	PRODUCTION DRILLING	DRILLING		ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION CURVE F/ 11,026' - T/ 11,344' (318' @ 29 FPH) WOB: 20-30K, GPM: 350, PPSI: 4,375, DIFF: 650-1250 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 80% SHALE / 20% LIMESTONE, BG GAS: 400-600U, CONN GAS: 1730U, MUD WEIGHT 12.0 IN/OUT W/59 VIS, 13.06 PPG CALCULATED ECD WITH NO LOSSES. RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. SLIDE F/ 11,026' -T/ 11,189' (163' @ 23 FPH) 35K WOB, 380-560 DIFF, 350 GPM, TF- HS SLIDE F/ 11,204' -T/ 11,220' (16' @ 16 FPH) 35K WOB, 380-560 DIFF, 350 GPM, TF- HS SLIDE F/ 11,235' -T/ 11,252' (17' @ 22.6 FPH) 35K WOB, 380-560 DIFF, 350 GPM, TF- HS SLIDE F/ 11,262' -T/ 11,307' (45' @ 30 FPH) 35K WOB, 380-560 DIFF, 350 GPM, TF- HS
16:00	16:30	0.5	PRODUCTION DRILLING	COND MUD & CIRC		FLOW CHECK WELL. WELL STATIC. PUMP 30 BBL, 14PPG SLUG
16:30	21:30	5.0	PRODUCTION DRILLING	TRIPS		TRIP OUT OF HOLE FOR LATERAL BHA ASSEMBLY F/ 11,344' - T/ 168' BHA MONITORING DISP T/F TRIP TANK WELL TAKING CORRECT DISP. TOTAL FOOTAGE PULLED: 11,176', AVG PULLED PER HR: 2,235' FT/HR.

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DAILY DRILLING REPORT

RPT DATE: 11/14/2021

RPT NUM.: 17

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY/JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 TB	RIG PHONE: 432-355-3112
AFE #: 21DC007	API #: 42475381370000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/13/2021	DFS: 13.8	DOL: 63
MD/TVD: 12470 FT/10969 FT	24 HR FTG: 1126	HRS DRLG: 16.5
PRESENT OPERATIONS: DRILLING AHEAD IN 6 3/4" PRODUCTION LATERAL @ 12,670'		
ACTIVITY PLANNED: CONTINUE DRILLING AHEAD IN 6 3/4" PRODUCTION LATERAL F/ 12,670', RIG SERVICE, GENERAL HOUSEKEEPING		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/14/2021	10/15/2021	None	HOUSEKEEPING, FIT FOR DUTY CHECKS
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			
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021			
0000 - 0600 : ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 12,470' - T/ 12,670' (200' @ 33 FPH) WOB: 20-28K, GPM: 300, PPST: 4,800-5,600, DIFF: 800-1000 PSI, RPM'S: 30-80, TORQUE ON: 9-13,800 FT/LBS OFF: 5,000-7,000 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 70% SHALE 30% LIMESTONE, BG GAS: 900U, CONN GAS: 4000U, MUD WEIGHT 11.9 IN/OUT W/61 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS.			
LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)			
NO ACCIDENTS, INCIDENTS, OR SPILLS			
DOWNTIME 0.0 HRS (0 HRS TOTAL)			
NPT: 0 HRS (10 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$71,718	CUM DRILL COST: \$1,848,514	CUM MUD COST: \$91,365	CUM WELL COST: \$1,848,514
BOP				
LAST BOP TEST:	11/12/21	LAST BOP DRILL:	11/14/21	NEXT BOP TEST: 12/2/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,902

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	61.0	7.0		2	9	14	16	17	12	226,301			60.40	6.00	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
7	6.75	BAKER HUGHES	DD406TWH	5322124	3x16, 3x14	1.040	N	0						
6	6.75	BAKER HUGHES	KYMER A K5M323	532443	2x22, 1x14	0.890	N	11,026	11,344	318	10.0	35	243	31.8

BIT NO. 7 INNER: 1 OUTER: 2 DULL: WT LOC: S SEAL: 8 GAUGE: I OTHER: NO 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	4.000	12.000	112	4605	175	3.10	95	13.29	338.8	417	26.89	1237
2	WEATHERFORD	EQ-2200	4.000	12.000	112	4605	175	3.10	95	13.29	338.8	417	26.89	1237

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker DD406TWH, 3-14',3-	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5" PDM 1.83 FBH 6/7 lb 8.0 stg. 81	5		27.85	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	NM UBHO Sub	5.062	2.688	2.6	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Stabilizer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA

LENGTH: 5,940.87

ROT. WT.: 194,000

BHA WT. AIR: 209,600

P.U. WT.: 220,000

BHA WT. MUD: 194,000

S.O. WT.: 165,000

HRS. ON JARS:

TORQUE: 6,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
11,703	94.55	252.70	10,992		211.0	-1,072.4	1,018.6	3.9
11,796	88.88	253.67	10,990		184.1	-1,161.3	1,110.9	6.2
11,891	91.16	254.64	10,990		158.2	-1,252.7	1,205.4	2.6
11,982	90.68	253.14	10,988		132.9	-1,340.1	1,295.9	1.7
12,077	90.90	253.32	10,987		105.5	-1,431.1	1,390.2	0.3
12,168	91.96	253.93	10,985		79.9	-1,518.4	1,480.6	1.3
12,260	90.46	253.41	10,983		54.0	-1,606.6	1,572.1	1.7
12,351	93.41	253.49	10,980		28.1	-1,693.8	1,662.5	3.2

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,245	7,482

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPERATOR #2	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721
10/6/2021	11:00	INTERMEDIATE	PATRICK OWENS	TRRC	OPERATOR MARY	INTERMEDIATE CASING AND CEMENT

TIME BREAKDOWN						
FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	00:30	0.5				<p>P/U & M/U 6 3/4" LATERAL BHA #7 AS FOLLOWS: BAKER DD406TWH, 3X14 3X16 JETS, 1.04 TFA, SN-5322124, 5.0" MOTOR 6/7 8.0STG FIXED SET AT 1.83 DEG 0.81REV/GAL, MAX TQ 7,760, MAX DIFF 1800, BIT TO BEND 3.43', KICK PAD OD 5.25" W/ 6.5" STAB, 1- 6.5" NORTRACK STAB., 1-4.75" NMPC, 5" UBHO SUB, 3-5" NMDC, 1- 5" NM FLEX DC, 5.75" XO, 1 STAND HWDP, DRILL AND REAM, 25 STANDS DP, 5" POWER PULSE AGITATOR, SN-PG525-0055 (2640' BACK), 35 STANDS DP, 5" ACTIVE PULSE AGITATOR, SN PG525-0057 (5940' BACK) TEST MWD @ 250 GPM W/ 1600 PSI</p> <p>(GOOD TEST)</p>
			PRODUCTION DRILLING	PU BHA		<p>**JSA & SAFETY CRITICAL SAFETY MEETING WITH ALL UNIT PERSONAL, DIRECTIONAL & COMP REP OVER JOB DETAILS, FOCUSING ON POTENTIAL HAZARDS AND ELIMINATING EXPOSURES.</p>
00:30	05:30	5.0				<p>TIH WITH LATERAL BHA. PICK UP FIRST AGITATOR AT 2640'. PUMP PRESSURE BEFORE PICKING UP AGITATOR- 2,355 PSI, AFTER 2,930 PSI AT 300 GPM (625 PSI/DROP). CONTINUE T.I.H AND PICK UP SECOND AGITATOR @ 5940'. MONITORING DISPLACEMENT AT MUD TANKS, FILLING PIPE EVERY 30 STANDS. T.I.H TO 11,294'.</p>
			PRODUCTION DRILLING	TRIPS		<p>** JSA & SAFETY MEETING WITH ALL UNIT PERSONAL OVER TRIPPING IN HOLE FOCUSING ON PINCH POINTS, BODY PLACEMENT & PROPER LIFTING TECHNIQUES.</p>
05:30	06:00	0.5				RE LOG F/ 11,294' – T/ 11,344' @ 150 FPH, GPM: 350, PPSI: 4600, RPM'S: 50, TORQUE: 6K FT/LBS FOR GAMMA OVERLAP.
06:00	15:00	9.0				<p>ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 11,344' - T/ 11,861' (517' @ 57 FPH) WOB: 20K, GPM: 300, PPSI: 4,800-5,600, DIFF: 800-1000 PSI, RPM'S: 30-70, TORQUE ON: 9-13,800 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: 900U, CONN GAS: 2700U, MUD WEIGHT 11.9 IN/OUT W/61 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS</p>
			PRODUCTION DRILLING	DRILLING		<p>SLIDE F/ 11,398' -T/ 11,422' (24' @ 48 FPH) 25-40K WOB, 150-435 DIFF, 350 GPM, TF- 140L SLIDE F/ 11,489' -T/ 11,515' (26' @ 52 FPH) 20-40K WOB, 230-350 DIFF, 350 GPM, TF- 140L SLIDE F/ 11,517' -T/ 11,573' (56' @ 56 FPH) 20-40K WOB, 170-350 DIFF, 350 GPM, TF- 160L SLIDE F/ 11,743' -T/ 11,768' (25' @ 25 FPH)30-40K WOB, 170-280 DIFF, 350 GPM, TF- 180 SLIDE F/ 11,773' -T/ 11,798' (25' @ 50 FPH) 20-51K WOB, 230-370 DIFF, 350 GPM, TF- 180</p>
15:00	15:30	0.5	PRODUCTION DRILLING	RIG SERVICE		RIG SERVICE / SERVICE TOP DRIVE

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DAILY DRILLING REPORT

RPT DATE: 11/15/2021

RPT NUM.: 18

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H

FIELD: PHANTOM (WOLFCAMP)

APE #: 21DC007

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/13/2021

MD/TVD: 13780 FT/10967 FT

PRESENT OPERATIONS: DRILLING 6 3/4" LATERAL AT 13,780'

ACTIVITY PLANNED: CONTINUE DRILLING AHEAD IN 6 3/4" PRODUCTION LATERAL F/ 13,780', RIG SERVICE, GENERAL HOUSEKEEPING

JOB: DRILLING

LEASE: UL JEFF EAST 17-27-5 TB

API #: 42475381370000

ELEVATION: 2681

DFS: 14.8

24 HR FTG: 1310

RIG SUPERV: MICHAEL MCCARTY/JOSH GILMORE

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 64

HRS DRLG: 24

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/15/2021	10/16/2021	None	HOUSEKEEPING, FIT FOR DUTY CHECKS

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

RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021

00:00 - 06:00 - ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 13,780' - T/ 13,996' (216' @ 36 FPH) WOB: 20-28K, GPM: 300, PPSI: 4,800-5,600, DIFF: 800-1400 PSI, RPM'S: 60-80, TORQUE ON: 9-13,800 FT/LBS OFF: 6,000-8,000 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 80% SHALE 20% LIMESTONE, BG GAS: 750U, CONN GAS: 3160U, MUD WEIGHT 11.7+ IN/OUT W/58 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS.

SLIDE F/ 13,792' -T/ 13,842' (50' @ 33.3 FPH) 30-44K WOB, 215-400 DIFF, 350 GPM, TF- 140L

SLIDE F/ 13,872' -T/ 13,937' (65' @ 32.5 FPH) 30-44K WOB, 250-500 DIFF, 350 GPM, TF- 180

SLIDE F/ 13,966' -T/ 13,996' (30' @ 24 FPH) 30-44K WOB, 250-500 DIFF, 350 GPM, TF- 180

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

DOWNTIME 0.0 HRS (0 HRS TOTAL)

NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300 DAILY DRILL COST: \$75,628 CUM DRILL COST: \$1,922,931 CUM MUD COST: \$102,731 CUM WELL COST: \$1,922,931

BOP

LAST BOP TEST: 11/12/21 LAST BOP DRILL: 11/15/21 NEXT BOP TEST: 12/2/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,902

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	11.9	57.0	7.0		2	8	14	18	18	10	230,930			60.90	6.30	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
7	6.75	BAKER HUGHES	DD406TWH	5322124	3x16, 3x14	1.040	N	12,470	13,780	1,310	24.0	20	344	54.6
6	6.75	BAKER HUGHES	KYMER A K5M323	532443	2x22, 1x14	0.890	N	11,026	11,344	318	10.0	35	243	31.8
BIT NO. 7		INNER: 1	OUTER: 2	DULL: WT	LOC: S	SEAL: 8	GAUGE: I	OTHER: NO	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	4.000	12.000	112	4600	175	3.10	95	13.14	337.2	415	26.89	1092
2	WEATHERFORD	EQ-2200	4.000	12.000	112	4600	175	3.10	95	13.14	337.2	415	26.89	1092

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker DD406TWH, 3-14', 3-	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5" PDM 1.83 FBH 6/7 lb 8.0 stg. 81	5		27.85	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	NM UBHO Sub	5.062	2.688	2.6	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Stabilizer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA

LENGTH: 5,940.87

ROT. WT.: 205,000

BHA WT. AIR: 229,450

P.U. WT.: 240,000

BHA WT. MUD: 205,000

S.O. WT.: 180,000

HRS. ON JARS:

TORQUE: 7,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
13,079	92.40	253.58	10,938		-161.1	-2,394.8	2,385.8	2.6
13,170	89.89	253.76	10,936		-186.7	-2,482.1	2,476.2	2.8
13,261	89.80	253.93	10,936		-212.0	-2,569.5	2,566.7	0.2
13,353	87.96	254.90	10,938		-236.7	-2,658.1	2,658.3	2.3
13,445	83.87	255.60	10,945		-260.1	-2,746.8	2,749.7	4.5
13,535	85.98	255.60	10,953		-282.4	-2,833.6	2,839.1	2.3
13,625	85.05	253.85	10,960		-306.0	-2,920.2	2,928.5	2.2
13,717	87.16	253.06	10,966		-332.1	-3,008.1	3,019.7	2.5

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,256	2,310	12,428

NOTIFICATIONS

[illegible]



DAILY DRILLING REPORT

RPT DATE:
RPT NUM.:
RIG:

WELL/JOB INFORMATION		
WELL NAME: UL JEFF EAST 17-27-5 TB 3H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY/JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 TB	RIG PHONE: 432-355-3112
AFE #: 21DC007	API #: 42475381370000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/13/2021	DFS: 14.8	DOL: 64
MD/TVD: 13780 FT/10967 FT	24 HR FTG: 1310	HRS DRLG: 24
PRESENT OPERATIONS: DRILLING 6 3/4" LATERAL AT 13,780'		
ACTIVITY PLANNED: CONTINUE DRILLING AHEAD IN 6 3/4" PRODUCTION LATERAL F/ 13,780', RIG SERVICE, GENERAL HOUSEKEEPING		

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		\$	20,402	ROLFSON OIL	# 2106364
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	WATERFLEET DAILY RENTAL	\$	560	WATERFLEET	WATER FLEET DAILY
2250-70	WELLDRIIVE	\$	50	WELLDRIIVE	WELLDRIIVE
2250-75	TRUCKING FOR MUD MOTOR	\$	400		# 914040
2250-80	DRILLING ADVISOR	\$	80	FOCUSED DRILLING & COMPLETIONS LLC	DRILLING ADVISOR
2250-80	WELLSITE SUPERVISOR JOSH GILMORE	\$	2,000	WORKRISE	WELLSITE SUPERVISOR
2250-80	WELLSITE SUPERVISOR MICHAEL MCCARTY	\$	2,000	WORKRISE	WELLSITE SUPERVISOR
2250-90	4.5" CET 43 DRILL PIPE RENTAL	\$	2,418	CASEY EQUIPMENT, LTD	4.5" CET DRILL PIPE RENTAL W/ TAX
2250-90	4.5" CET 43 HW DRILL PIPE RENTAL	\$	720	CASEY EQUIPMENT, LTD	4.5" CET HW DRILL PIPE RENTAL \$12/ JT
2250-95	ADS ROTATING HEAD	\$	530	ADS	ROTATING HEAD
2250-95	B.O.P. POLLUTION CONTAINMENT	\$	50	JOHNSON SPECIALTY TOOLS (JST)	BOP POLLUTION CONTAINMENT
2250-95	BOP SPOOL	\$	44	MONAHANS NIPPLE-UP SERVICE	13 5/8" X 22" SPOOL
2250-95	FORKLIFTS, MAN LIFT, LIGHT TOWERS	\$	578	SKEWL ENERGY SERVICES	FORKLIFTS, MAN LIFT, LIGHT TOWERS
2250-95	GENERATOR, PUMP, AND POLY LINE	\$	169	JACK MILLSAP COMPANY, INC.	GENERATOR, PUMP, AND POLYLINE
2250-95	H2S MONITORING SYSTEM	\$	81	CANON SAFETY SERVICES	H2S MONITORING
2250-95	INLINE SCREEN	\$	75	BLACK DIAMOND	INLINE MUD SCREEN
2250-95	MUD VAC AND DIESEL SCREEN WASHER	\$	121	EAST TEXAS SUPPLY	MUD VAC AND DIESEL SCREEN WASHER
2250-95	PRESSURE WASHER	\$	55	SKEWL ENERGY SERVICES	PRESSURE WASHER
2250-95	PVT AND RIG MONITORING	\$	792	NOV	TOTCO PVT AND RIG MONITORING
2250-95	ROCKIT	\$	492	NABORS DRILLING SOLUTIONS	ROCKIT DAILY RENTAL
2250-95	STAGE 3	\$	2,385	STAGE 3 SEPARATION	CENTRIFUGE, SHAKERS, HOG TROUGH, FIELD TECHS
2250-95	TANK FARM, PREMIX TANK, RESERVE PIT P	\$	1,199	SKEWL ENERGY SERVICES	TANK FARM, PREMIX TANK, RESERVE PIT PUMPS
2250-95	X2 ADJ. POWER CHOKES, MANIFOLD	\$	742	IRON HORSE TOOLS, INC.	2 SUPER CHOKES, MANIFOLD AND FLARE LINE.
2250-115	DIRECTIONAL DRILLING & SURVEYS	\$	7,625	TALLY DRILLING SERVICES	DIRECTIONAL TOOLS AND SERVICES
2250-125	DRILLING & COMPLETION FLUIDS	\$	5,980	AES DRILLING FLUIDS INC	MUD ENGINEER AND CHEMICALS
2250-125	MUD DIESEL	\$	5,387	ROLFSON OIL	1890 GALLONS MUD DIESEL
2250-130	GEOSTEERING	\$	475	DIVERSIFIED WELL LOGGING LLC	
2250-130	MUD LOGGING	\$	925	IMPAC EXPLORATION SERVICES, INC.	

TIME BREAKDOWN						
FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	06:00	6.0				ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 12,470' - T/ 12,670' (200' @ 33 FPH) WOB: 20-28K, GPM: 300, PPSI: 4,800-5,600, DIFF: 800-1000 PSI, RPM'S: 60-80, TORQUE ON: 9-13,800 FT/LBS OFF: 5,000-7,000 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90% SHALE 10% LIMESTONE, BG GAS: 500U, CONN GAS: 3500U, MUD WEIGHT 11.8+ IN/OUT W/58 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. SLIDE F/ 12,477' -T/ 12,507' (30' @ 30 FPH) 20-44K WOB, 215-435 DIFF, 350 GPM, TF- 180 SLIDE F/ 12,545' -T/ 12,585' (40' @ 27 FPH) 20-30K WOB, 215-435 DIFF, 350 GPM, TF- 160L-180 SLIDE F/ 12,598' -T/ 12,630' (32' @ 32 FPH) 30-40K WOB, 215-435 DIFF, 350 GPM, TF- 160L-180 SLIDE F/ 12,650' -T/ 12,689' (39' @ 39 FPH) 20-41K WOB, 215-435 DIFF, 350 GPM, TF- 160-180
06:00	12:00	6.0	PRODUCTION DRILLING	DRILLING		ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 12,670' - T/ 13,123' (453' @ 75.5 FPH) WOB: 20-28K, GPM: 300, PPSI: 4,800-5,600, DIFF: 800-1000 PSI, RPM'S: 50-80, TORQUE ON: 9-13,800 FT/LBS OFF: 6,000-8,000 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 10% SHALE 90% LIMESTONE, BG GAS: 500U, CONN GAS: 3500U, MUD WEIGHT 11.8+ IN/OUT W/58 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. SLIDE F/ 12,720' -T/ 12,750' (30' @ 30 FPH) 30-44K WOB, 215-435 DIFF, 350 GPM, TF- 180 SLIDE F/ 12,869' -T/ 12,902' (33' @ 66 FPH) 30-40K WOB, 215-435 DIFF, 350 GPM, TF- 180 SLIDE F/ 12,962' -T/ 12,992' (30' @ 30 FPH) 30-44K WOB, 215-435 DIFF, 350 GPM, TF- 180
12:00	20:30	8.5	PRODUCTION DRILLING	DRILLING		ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 13,123' - T/ 13,414' (291' @ 34.2 FPH) WOB: 20-28K, GPM: 300, PPSI: 4,800-5,600, DIFF: 800-1400 PSI, RPM'S: 50-80, TORQUE ON: 9-13,800 FT/LBS OFF: 6,000-8,000 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 70% SHALE 30% LIMESTONE, BG GAS: 450U, CONN GAS: 2800U, MUD WEIGHT 11.8+ IN/OUT W/57 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. SLIDE F/ 13,123' -T/ 13,176' (53' @ 21.2 FPH) 30-44K WOB, 215-435 DIFF, 350 GPM, TF- 180 SLIDE F/ 13,235' -T/ 13,260' (25' @ 25 FPH) 30-44K WOB, 215-435 DIFF, 350 GPM, TF- 180 SLIDE F/ 13,308' -T/ 13,414' (106' @ 35.3 FPH) 30-44K WOB, 215-500 DIFF, 350 GPM, TF- 160-180

20:30	00:00	3.5				ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 13,414' - T/ 13,780' (366' @ 104.5 FPH) WOB: 20-28K, GPM: 300, PPSI: 4,800-5,600, DIFF: 800-1400 PSI, RPM'S: 60-70, TORQUE ON: 9-13,800 FT/LBS OFF: 6,000-8,000 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90% SHALE 10% LIMESTONE, BG GAS: 750U, CONN GAS: 3160U, MUD WEIGHT 11.7+ IN/OUT W/58 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS.
			PRODUCTION DRILLING	DRILLING		SLIDE F/ 13,600' -T/ 13,630' (30' @ 30 FPH) 30-44K WOB, 215-500 DIFF, 350 GPM, TF- 140L SLIDE F/ 13,792' -T/ 13,842' (50' @ 25 FPH) 30-44K WOB, 215-500 DIFF, 350 GPM, TF- 180
TOTAL HRS		24.0				

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DAILY DRILLING REPORT

RPT DATE: 11/16/2021

RPT NUM.: 19

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY/JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 TB	RIG PHONE: 432-355-3112
AFE #: 21DC007	API #: 42475381370000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/13/2021	DFS: 15.8	DOL: 65
MD/TVD: 14742 FT/10952 FT	24 HR FTG: 962	HRS DRLG: 23.5
PRESENT OPERATIONS: DRILLING 6 3/4" PRODUCTION LATERAL @ 14,742'		
ACTIVITY PLANNED: CONTINUE DRILLING AHEAD IN 6 3/4" PRODUCTION LATERAL F/ 14,742', RIG SERVICE, GENERAL HOUSEKEEPING		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/16/2021	10/17/2021	None	INSPECTING ROTARY TOOLS, SLIP AND TRIP HAZARDS
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			
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021			

00:00 – 0600 SLIDE DRILL 6 ¾" PRODUCTION LATERAL F/ 14,742' - T/ 14,835' (93' @ 15.5 FPH) WOB: 20-45K, GPM: 350, PPSI: 5,000-5,400, DIFF: 250-450 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90% LIMESTONE 10% SHALE, BG GAS: 400-1380U, CONN GAS: 3450U, MUD WEIGHT 11.8+ IN/OUT W/60 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. SLIDING 100% IN ATTEMPT TO BREAK THROUGH LIMESTONE STRINGER AND GET BACK DOWN TO TARGET LINE.

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

DOWNTIME 0.0 HRS (0 HRS TOTAL)

NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$60,808	CUM DRILL COST: \$1,985,704	CUM MUD COST: \$117,422	CUM WELL COST: \$1,985,704
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BOP

LAST BOP TEST:	11/12/21	LAST BOP DRILL:	11/15/21	NEXT BOP TEST:	12/2/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,902

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	58.0	7.0		2	9	14	18	18	13	235,667			61.40	6.40	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
7	6.75	BAKER HUGHES	DD406TWH	5322124	3x16, 3x14	1.040	N	13,780	14,742	962	23.5	28	383	40.9
6	6.75	BAKER HUGHES	KYMER A K5M323	532443	2x22, 1x14	0.890	N	11,026	11,344	318	10.0	35	243	31.8

BIT NO. 7 INNER: 1 OUTER: 2 DULL: WT LOC: S SEAL: 8 GAUGE: I OTHER: NO 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	4.000	12.000	112	4700	175	3.10	95	13.37	337.2	415	26.89	1063
2	WEATHERFORD	EQ-2200	4.000	12.000	112	4700	175	3.10	95	13.37	337.2	415	26.89	1063

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker DD406TWH, 3-14", 3-	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5" PDM 1.83 FBH 6/7 lb 8.0 stg. 81	5		27.85	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	NM UBHO Sub	5.062	2.688	2.6	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Stabilizer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA

LENGTH: 5,940.87

ROT. WT.: 204,000

BHA WT. AIR: 229,450

P.U. WT.: 240,000

BHA WT. MUD: 204,000

S.O. WT.: 175,000

HRS. ON JARS:

TORQUE: 8,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
13,995	88.22	257.89	10,968		-402.8	-3,276.9	3,296.6	2.5
14,088	90.51	256.83	10,969		-423.2	-3,367.6	3,389.5	2.7
14,183	87.56	256.31	10,970		-445.2	-3,460.0	3,484.3	3.2
14,278	93.10	257.01	10,970		-467.1	-3,552.4	3,579.1	5.9
14,372	90.77	256.04	10,967		-489.0	-3,643.7	3,672.9	2.7
14,466	91.12	258.86	10,965		-509.4	-3,735.4	3,766.8	3.0
14,560	92.00	260.61	10,962		-526.2	-3,827.9	3,860.8	2.1
14,655	93.54	263.78	10,958		-539.1	-3,921.9	3,955.6	3.7

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,887	9,541

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPERATOR #1	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721

TIME BREAKDOWN						
FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	06:30	6.5				ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 13,780' - T/ 13,996' (216' @ 36 FPH) WOB: 20-28K, GPM: 300, PPSI: 4,800-5,600, DIFF: 800-1400 PSI, RPM'S: 60-80, TORQUE ON: 9-13,800 FT/LBS OFF: 6,000-8,000 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 80% SHALE 20% LIMESTONE, BG GAS: 750U, CONN GAS: 3160U, MUD WEIGHT 11.7+ IN/OUT W/58 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. SLIDE F/ 13,792' -T/ 13,842' (50' @ 33.3 FPH) 30-44K WOB, 215-400 DIFF, 350 GPM, TF- 140L SLIDE F/ 13,872' -T/ 13,937' (65' @ 32.5 FPH) 30-44K WOB, 215-400 DIFF, 350 GPM, TF- 180 SLIDE F/ 13,966' -T/ 13,991' (25' @ 25 FPH) 30-44K WOB, 215-400 DIFF, 350 GPM, TF- 180
			PRODUCTION DRILLING	DRILLING		
06:30	16:00	9.5				ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 13,996' - T/ 13,437' (441' @ 46.4 FPH) WOB: 20-28K, GPM: 300, PPSI: 4,800-5,600, DIFF: 800-1400 PSI, RPM'S: 20-100, TORQUE ON: 11-15,000 FT/LBS OFF: 7,500-9,000 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90% SHALE 10% LIMESTONE, BG GAS: 850U, CONN GAS: 3500U, MUD WEIGHT 11.8+ IN/OUT W/61 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. SLIDE F/ 13,991' -T/ 13,996' (5' @ 17 FPH) 30-44K WOB, 215-400 DIFF, 350 GPM, TF- 180 SLIDE F/ 14,137' -T/ 14,170' (33' @ 22 FPH) 30-44K WOB, 250-450 DIFF, 350 GPM, TF- 180 SLIDE F/ 14,432' -T/ 14,383' (49' @ 17.8 FPH) 30-44K WOB, 250-450 DIFF, 350 GPM, TF- 180 SLIDE F/ 14,418' -T/ 14,437' (19' @ 15.2 FPH) 30-44K WOB, 250-450 DIFF, 350 GPM, TF- 180
			PRODUCTION DRILLING	DRILLING		
16:00	16:30	0.5	PRODUCTION DRILLING	RIG SERVICE		SERVICE RIG AND TOPDRIVE, GREASE CROWN
16:30	00:00	7.5				ROTATE AND SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 14,437' - T/ 14,742' (305' @ 40.6 FPH) WOB: 20-28K, GPM: 300, PPSI: 4,800-5,600, DIFF: 800-1400 PSI, RPM'S: 70-100, TORQUE ON: 11-15,000 FT/LBS OFF: 7,500-9,000 FT/LBS, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90% LIMESTONE 10% SHALE, BG GAS: 1380U, CONN GAS: 3450U, MUD WEIGHT 11.8+ IN/OUT W/61 VIS, RUNNING CENTRIFUGE AS NEEDED TO CONTROL LOW GRAVITY SOLIDS. SLIDE F/ 14,437' -T/ 14,452' (15' @ 30 FPH) 30-44K WOB, 215-400 DIFF, 350 GPM, TF- 180 SLIDE F/ 14,594' -T/ 14,620' (26' @ 26 FPH) 30-44K WOB, 215-400 DIFF, 350 GPM, TF- 140-180 SLIDE F/ 14,657' -T/ 14,720' (63' @ 21 FPH) 30-44K WOB, 215-400 DIFF, 350 GPM, TF- 140-180 SLIDE F/ 14,730' -T/ 14,742' (12' @ 16 FPH) 30-44K WOB, 215-400 DIFF, 350 GPM, TF- 180
			PRODUCTION DRILLING	DRILLING		



DAILY DRILLING REPORT

RPT DATE: 11/17/2021

RPT NUM.: 20

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC007
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/13/2021
MD/TVD: 15515 FT/10979 FT
PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE AHEAD
ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLD AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST 17-27-5 TB
API #: 42475381370000
ELEVATION: 2681
DFS: 16.8
24 HR FTG: 773

RIG SUPERV: MICHAEL MCCARTY/ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 66
HRS DRLG: 23.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/17/2021	10/18/2021	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
TD JEFF EAST 17-27-5 WA 1H @ 13:00 HRS, 11/8/2021
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021

0000 – 0600: ROTATE & SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 15,515' - T/ 15,750' (235' @ 39 FPH) WOB: 20-50K, GPM: 300, PSI: 4,200-5,400, DIFF: 250-1300 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE OPEN, LITHOLOGY: 100% SHALE, TRACE LIMESTONE, BG GAS: 1720U, MUD WEIGHT 11.8 IN/OUT W/60VIS, RUNNING CENTRIFUGE TO CONTROL LOW GRAVITY SOLIDS

SLIDE F/ 15,515' -T/ 15,523' (8' @ 21 FPH)26-46K WOB, 360-550 DIFF, 300 GPM, TF- 180
SLIDE F/ 15,660' -T/ 15,679' (19' @ 16 FPH) 34-50K WOB, 207-430 DIFF, 300 GPM, TF- 180

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)
NO ACCIDENTS, INCIDENTS, OR SPILLS
DOWNTIME 0.0 HRS (0 HRS TOTAL)
NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$56,149	CUM DRILL COST: \$2,041,853	CUM MUD COST: \$128,709	CUM WELL COST: \$2,041,853
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BOP

LAST BOP TEST:	11/12/21	LAST BOP DRILL:	11/15/21	NEXT BOP TEST:	12/2/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,902

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	58.0			2	9	13	17	17	13	37,000			77.00	6.20	6.80

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
7	6.75	BAKER HUGHES	DD406TWH	5322124	3x16, 3x14	1.040	N	14,742	15,515	773	21.5	29	243	36.0
6	6.75	BAKER HUGHES	KYMER A KSM323	532443	2x22, 1x14	0.890	N	11,026	11,344	318	10.0	35	243	31.8

BIT NO. 7 INNER: 1 OUTER: 2 DULL: WT LOC: S SEAL: 8 GAUGE: I OTHER: NO 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	4.000	12.000	48	4520	175	3.10	95	12.67	290	357	14.28	1114
2	WEATHERFORD	EQ-2200	4.000	12.000	48	4520	175	3.10	95	12.67	290	357	14.28	1114

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker DD406TWH, 3-14',3-	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5" PDM 1.83 FBH 6/7 lb 8.0 stg .81	5.25		27.85	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	NM UBHO Sub	5.062	2.688	2.6	11	Drill Pipe-1) Stand 4 1/2" HWD	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Stabilizer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA
LENGTH: 5,940.87
ROT. WT.: 206,000

BHA WT. AIR: 8,205
P.U. WT.: 270,000

BHA WT. MUD: 6,565
S.O. WT.: 170,000

HRS. ON JARS:
TORQUE: 15,900

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
14,748	94.86	267.29	10,951		-546.3	-4,014.3	4,047.9	4.0
14,843	90.29	272.39	10,947		-546.5	-4,109.2	4,141.3	7.2
14,938	85.93	272.04	10,950		-542.9	-4,204.1	4,234.0	4.6
15,032	83.12	270.46	10,959		-540.8	-4,297.6	4,325.7	3.4
15,126	87.30	270.55	10,967		-540.0	-4,391.2	4,417.8	4.5
15,221	87.43	270.11	10,971		-539.5	-4,486.1	4,511.1	0.5
15,315	85.36	268.70	10,977		-540.4	-4,579.9	4,603.6	2.7
15,407	92.04	268.26	10,979		-542.9	-4,671.8	4,694.5	7.3

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,432	7,109

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPERATOR #2	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721
10/6/2021	11:00	INTERMEDIATE	PATRICK OWENS	TRRC	OPERATOR MARY	INTERMEDIATE CASING AND CEMENT
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 HR)		13	168	1,008
AES DRILLING FLUIDS		MUD ENGINEER		1	24	144
TALLY ENERGY		2DD'S, 2 MWD HANDS		4	48	288
STAGE 3		2 SOLID CONTROL HANDS		2	24	144
IMPAC		2 MUD LOGGERS		2	24	144
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DAILY DRILLING REPORT

RPT DATE: 11/17/2021

RPT NUM.: 20

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC007
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/13/2021
MD/TVD: 15515 FT/10979 FT
PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE AHEAD
ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLD AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST 17-27-5 TB
API #: 42475381370000
ELEVATION: 2681
DFS: 16.8
24 HR FTG: 773

RIG SUPERV: MICHAEL MCCARTY/ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 66
HRS DRLG: 23.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/17/2021	10/18/2021	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
TD JEFF EAST 17-27-5 WA 1H @ 13:00 HRS, 11/8/2021
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021

0000 – 0600: ROTATE & SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 15,515' - T/ 15,750' (235' @ 39 FPH) WOB: 20-50K, GPM: 300, PSI: 4,200-5,400, DIFF: 250-1300 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE OPEN, LITHOLOGY: 100% SHALE, TRACE LIMESTONE, BG GAS: 1720U, MUD WEIGHT 11.8 IN/OUT W/60VIS, RUNNING CENTRIFUGE TO CONTROL LOW GRAVITY SOLIDS

SLIDE F/ 15,515' -T/ 15,523' (8' @ 21 FPH)26-46K WOB, 360-550 DIFF, 300 GPM, TF- 180
SLIDE F/ 15,660' -T/ 15,679' (19' @ 16 FPH) 34-50K WOB, 207-430 DIFF, 300 GPM, TF- 180

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)
NO ACCIDENTS, INCIDENTS, OR SPILLS
DOWNTIME 0.0 HRS (0 HRS TOTAL)
NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$56,149	CUM DRILL COST: \$2,074,137	CUM MUD COST: \$128,709	CUM WELL COST: \$2,074,137
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LAST BOP TEST:	11/12/21	LAST BOP DRILL:	11/15/21	NEXT BOP TEST:	12/2/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,902

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	58.0			2	9	13	17	17	13	37,000			77.00	6.20	6.80

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
7	6.75	BAKER HUGHES	DD406TWH	5322124	3x16, 3x14	1.040	N	14,742	15,515	773	21.5	29	243	36.0
6	6.75	BAKER HUGHES	KYMER A KSM323	532443	2x22, 1x14	0.890	N	11,026	11,344	318	10.0	35	243	31.8

BIT NO. 7 INNER: 1 OUTER: 2 DULL: WT LOC: S SEAL: 8 GAUGE: I OTHER: NO 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	4.000	12.000	48	4520	175	3.10	95	12.67	290	357	14.28	1114
2	WEATHERFORD	EQ-2200	4.000	12.000	48	4520	175	3.10	95	12.67	290	357	14.28	1114

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker DD406TWH, 3-14',3-	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5.25 PDM 1.83 FBH 6/7 lb 8.0 stg .	5.25		27.85	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	NM UBHO Sub	5.062	2.688	2.6	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Stabilizer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA
LENGTH: 5,940.87
ROT. WT.: 206,000

BHA WT. AIR: 8,205
P.U. WT.: 270,000

BHA WT. MUD: 6,565
S.O. WT.: 170,000

HRS. ON JARS:
TORQUE: 15,900

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
14,748	94.86	267.29	10,951		-546.3	-4,014.3	4,047.9	4.0
14,843	90.29	272.39	10,947		-546.5	-4,109.2	4,141.3	7.2
14,938	85.93	272.04	10,950		-542.9	-4,204.1	4,234.0	4.6
15,032	83.12	270.46	10,959		-540.8	-4,297.6	4,325.7	3.4
15,126	87.30	270.55	10,967		-540.0	-4,391.2	4,417.8	4.5
15,221	87.43	270.11	10,971		-539.5	-4,486.1	4,511.1	0.5
15,315	85.36	268.70	10,977		-540.4	-4,579.9	4,603.6	2.7
15,407	92.04	268.26	10,979		-542.9	-4,671.8	4,694.5	7.3

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,432	7,109

NOTIFICATIONS

[illegible]

[illegible]



DAILY DRILLING REPORT

RPT DATE: 11/18/2021

RPT NUM.: 21

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC007

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/13/2021

MD/TVD: 16101 FT/10972 FT

PRESENT OPERATIONS: TRIPPING OUT OF HOLE FOR BHA

ACTIVITY PLANNED: TRIP OUT OF HOLE / CHANGE BHA / T.I.H / RELOG/ DRILL 6 3/4" PRODUCTION LATERAL F/ 16,101'

JOB: DRILLING

LEASE: UL JEFF EAST 17-27-5 TB

API #: 42475381370000

ELEVATION: 2681

DFS: 17.8

24 HR FTG: 586

RIG SUPERV: MICHAEL MCCARTY/JOSH GILMORE

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 67

HRS DRLG: 15.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/18/2021	10/19/2021	None	MAKING CONNECTION / TRIPPING OUT OF HOLE / MIXING CHEM'S

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 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
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021

00:00 – 02:30 TRIP OUT OF HOLE FOR LATERAL BHA ASSEMBLY (DOWN HOLE MOTOR FAILURE) F/ 5,000' - T/ 136' (WET) @ 200 FPM INSIDE CASING, MONITORING DISP T/F TRIP TANK WELL TAKING CORRECT DISP. TOTAL CALC DISP: 126.3 BBLS, ACTUAL DISP: 147.3 BBLS, DIFFERENCE IN DISPLACEMENT: 21 BBLS, FLOW CHECK WELL AT FLOW CHECK WELL AT 5,000' (WELL STATIC)

TOTAL FOOTAGE PULLED: 4,864',
AVG PULLED PER HR: 1,945' FT/HR.

02:30 – 04:30 P/U & M/U 6 3/4" LATERAL BHA #8 AS FOLLOWS: BAKER DD406TWH, 3X14 3X16 JETS, 1.04 TFA, SN-5322137, 5.25" MOTOR 7/8 8.2STG FIXED SET AT 1.83 DEG 0.69REV/GAL, MAX TQ 9,800, MAX DIFF 2500, BIT TO BEND 3.70', KICK PAD OD 5.31" W/ 6.5" STAB, 1- 6.5" NORTHRACK STAB., 1- 4.75" NMPC, 5" UBHO SUB, 4-5" NMDC, 5.75" XO, 1 STAND HWDP, DRILL AND REAM, 25 STANDS DP, 5" POWER PULSE AGITATOR, SN-PGS25-0079 (2640' BACK), 35 STANDS DP, 5" ACTIVE PULSE AGITATOR, SN PGS25-0054 (5941' BACK)

**JSA & SAFETY CRITICAL SAFETY MEETING WITH ALL UNIT PERSONAL, DIRECTIONAL & COMP REP OVER JOB DETAILS, FOCUSING ON POTENTIAL HAZARDS AND ELIMINATING EXPOSURES

04:30 – 06:00 T.I.H WITH LATERAL BHA. PICK UP FIRST AGITATOR AT 2640'. PUMP PRESSURE BEFORE / AFTER PICKING UP AGITATOR-

** JSA & SAFETY MEETING WITH ALL UNIT PERSONAL OVER TRIPPING IN HOLE FOCUSING ON PINCH POINTS, BODY PLACEMENT & PROPER LIFTING TECHNIQUES

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

DOWNTIME 0.0 HRS (0 HRS TOTAL)

NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300 DAILY DRILL COST: \$95,356 CUM DRILL COST: \$2,169,213 CUM MUD COST: \$142,889 CUM WELL COST: \$2,169,213

BOP

LAST BOP TEST: 11/12/21 LAST BOP DRILL: 11/15/21 NEXT BOP TEST: 12/2/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,902

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
19:00	11.9	58.0			2	9	13	17	17	14	37,000			77.00	6.20	6.80

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
7	6.75	BAKER HUGHES	DD406TWH	5322124	3x16, 3x14	1.040	N	15,515	16,101	586	14.0	32	243	41.8
6	6.75	BAKER HUGHES	KYMER A K5M323	532443	2x22, 1x14	0.890	N	11,026	11,344	318	10.0	35	243	31.8

BIT NO. 6 INNER: 1 OUTER: 2 DULL: WT LOC: S SEAL: 8 GAUGE: I OTHER: NO 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	4.000	12.000	48	5930	300	3.10	95	13.37	290.4	357	14.28	1114
2	WEATHERFORD	EQ-2200	4.000	12.000	48	5930	300	3.10	95	13.37	290.4	357	14.28	1114

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker DD406TWH, 3-14',3-	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5.25 PDM 1.83 FBH 6/7 lb 8.0 stg .	5.25		27.85	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Drill Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5.062	2.688	2.6	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Stabilizer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA

LENGTH: 5,940.87

ROT. WT.: 198,000

BHA WT. AIR: 6,565

P.U. WT.: 275,000

BHA WT. MUD: 8,205

S.O. WT.: 168,000

HRS. ON JARS:

TORQUE: 16,500

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
15,315	85.36	268.70	10,977		-540.4	-4,579.9	4,603.6	2.7
15,407	92.04	268.26	10,979		-542.9	-4,671.8	4,694.5	7.3
15,501	87.43	267.03	10,979		-546.7	-4,765.7	4,787.6	5.1
15,595	90.51	266.24	10,981		-552.3	-4,859.5	4,880.9	3.4
15,688	93.05	267.38	10,978		-557.4	-4,952.3	4,973.2	3.0
15,781	91.91	267.21	10,974		-561.8	-5,045.1	5,065.3	1.2
15,874	91.03	267.73	10,972		-565.9	-5,138.0	5,157.5	1.1
15,967	90.11	266.77	10,971		-570.4	-5,230.9	5,249.7	1.4

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,013	5,096

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPPERATOR #2	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721
10/6/2021	11:00	INTERMEDIATE	PATRICK OWENS	TRRC	OPERATOR MARY	INTERMEDIATE CASING AND CEMENT
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 HR)		13	168	1,176
AES DRILLING FLUIDS		MUD ENGINEER		1	24	168
TALLY ENERGY		2DD'S, 2 MWD HANDS		4	48	336
STAGE 3		2 SOLID CONTROL HANDS		2	24	168
IMPAC		2 MUD LOGGERS		2	24	168
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FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	06:00	6.0	PRODUCTION DRILLING	DRILLING		<p>ROTATE & SLIDE DRILL 6 ½" PRODUCTION LATERAL F/ 15,515' - T/ 15,735' (220' @ 37 FPH) WOB: 20-50K, GPM: 300, PPSI: 4,200-5,000, DIFF: 250-1000 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100% SHALE, TRACE LIMESTONE, BG GAS: 360U, CONN GAS: 2290U, MUD WEIGHT 11.8 IN/OUT W/59VIS, RUNNING CENTRIFUGE TO CONTROL LOW GRAVITY SOLIDS</p> <p>SLIDE F/ 15,515' -T/ 15,523' (8' @ 21 FPH)26-46K WOB, 360-550 DIFF, 300 GPM, TF- 180</p> <p>SLIDE F/ 15,660' -T/ 15,679' (19' @ 16 FPH) 34-50K WOB, 207-430 DIFF, 300 GPM, TF- 180</p> <p>SLIDE F/ 15,689' -T/ 15,700' (11' @ 12 FPH) 34-50K WOB, 180-420 DIFF, 300 GPM, TF- 180</p>
06:00	14:00	8.0	PRODUCTION DRILLING	DRILLING		<p>ROTATE & SLIDE DRILL 6 ½" PRODUCTION LATERAL F/ 15,735' - T/ 16,039'(304' @ 38 FPH) WOB: 20-32K, GPM: 300-350, PPSI: 4,200-5,700, DIFF: 250-1460 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100% SHALE, BG GAS: 440U, CONN GAS: 2840U, MUD WEIGHT 11.9 IN/OUT W/57VIS, RUNNING CENTRIFUGE TO CONTROL LOW GRAVITY SOLIDS</p> <p>DROP BALL AND ACTIVATE 2ND AGITATOR @ 15,753' DROP BALL AND CIRCULATE @ 200 GPM SEAT BALL & ACTIVATE FRICTION BREAKING TOOL PRESSURE BEFORE 3,950 AFTER 4,325 PSI (375 PSI /DROP)</p> <p>SLIDE F/ 15,753' -T/ 15,787' (34' @ 15 FPH) 15-32K WOB, 180-420 DIFF, 300 GPM, TF- 180</p> <p>SLIDE F/ 15,844' -T/ 15,875' (31' @ 21 FPH) 15-32K WOB, 120-257 DIFF, 300 GPM, TF- 180</p> <p>SLIDE F/ 15,936' -T/ 15,978' (42' @ 28 FPH) 15-32K WOB, 160-460 DIFF, 300 GPM, TF- 180</p> <p>SLIDE F/ 16,037' -T/ 16,060' (23' @ 15 FPH) 15-32K WOB, 160-350 DIFF, 350 GPM, TF- 180</p>
14:00	15:00	1.0	PRODUCTION DRILLING	DIR WORK		DOWNLINK MWD INTO 1.0 DATA RATE FOR TOOL FACE STABILITY AND UPDATES. ATTEMPTED 3X WITHOUT SUCCESS, ON 4TH ATTEMPT SUCCESSFUL DOWNLINK.
15:00	16:30	1.5	PRODUCTION DRILLING	DRILLING		<p>ROTATE & SLIDE DRILL 6 ½" PRODUCTION LATERAL F/ 16,039' - T/ 16,101' (62' @ 41 FPH) WOB: 20-32K, GPM: 300-350, PPSI: 4,200-5,700, DIFF: 250-1460 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100% SHALE, BG GAS: 440U, CONN GAS: 2840U, MUD WEIGHT 11.9 IN/OUT W/57VIS, RUNNING CENTRIFUGE TO CONTROL LOW GRAVITY SOLIDS</p>



DAILY DRILLING REPORT

RPT DATE: 11/19/2021

RPT NUM.: 22

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC007

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/13/2021

MD/TVD: 16752 FT/10980 FT

PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE

ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING

LEASE: UL JEFF EAST 17-27-5 TB

API #: 42475381370000

ELEVATION: 2681

DFS: 18.8

24 HR FTG: 651

RIG SUPERV: MICHAEL MCCARTY/JOSH GILMORE

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 68

HRS DRLG: 11

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/19/2021	10/20/2021	None	TRIPPING IN HOLE / INSTALLING ROTATING HEAD / MAKING 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

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

RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021

0000 – 0600 : ROTATE & SLIDE DRILL 6 ¾" PRODUCTION LATERAL F/ 16,752' - T/ 17,030'(278' @ 46 FPH) WOB: 20-28K, GPM: 350, PSI: 5,200-6,050, DIFF: 250-1030 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 80% SHALE, 20% LIMESTONE, BG GAS: 530U, CONN GAS: 1960U, MUD WEIGHT 11.7 IN/OUT W/57VIS, RUNNING CENTRIFUGE TO CONTROL LOW GRAVITY SOLIDS

SLIDE F/ 16,789' -T/ 16,809' (20' @ 27 FPH) 21-52K WOB, 215-400DIFF, 350 GPM, TF- 90L

SLIDE F/ 16,882' -T/ 16,910' (28' @ 25 FPH) 22-51K WOB, 210-420 DIFF, 350 GPM, TF-140L

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

DOWNTIME 0.0 HRS (0 HRS TOTAL)

NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$117,506	CUM DRILL COST: \$2,287,380	CUM MUD COST: \$149,631	CUM WELL COST: \$2,287,380
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BOP

LAST BOP TEST:	11/12/21	LAST BOP DRILL:	11/15/21	NEXT BOP TEST:	12/2/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)				PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	11.8	58.0			2	9	14	16	17	13	3,700						78.00	6.20	6.40

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
8	6.75	BAKER	DD406TWH	5322137	3x16, 3x14	1.040	N	16,101	16,752	651	9.9	28	242	66.1
7	6.75	BAKER HUGHES	DD406TWH	5322124	3x16, 3x14	1.040	N	11,344	16,101	4,757	14.0	32	243	339.3

BIT NO. 6 INNER: 1 OUTER: 2 DULL: WT LOC: S SEAL: 8 GAUGE: I OTHER: NO 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	4.000	12.000	56	608	350	3.10	95	12.93	338	417	22.49	1361
2	WEATHERFORD	EQ-2200	4.000	12.000	56	4700	175	3.10	95	12.93	338	417	22.49	1361

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker DD406TWH, 3-14', 3-	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5.25" PDM 1.83deg FBH 7/8 8.2 St	5.25		27.95	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	6.5	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Drill Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5.062	2.688	2.91	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Stabilizer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA #2

LENGTH: 5,941.34

ROT. WT.: 205,000

BHA WT. AIR:

P.U. WT.: 250,000

BHA WT. MUD:

S.O. WT.: 165,000

HRS. ON JARS:

TORQUE: 16,300

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
15,967	90.11	266.77	10,971	-570.4	-5,230.9			1.4
16,062	93.10	267.38	10,968	-575.2	-5,325.7			3.2
16,156	93.49	268.88	10,963	-578.3	-5,419.5			1.7
16,249	95.34	267.65	10,956	-581.1	-5,512.2			2.4
16,342	89.14	262.37	10,952	-589.2	-5,604.7			8.8
16,466	81.80	262.11	10,962	-605.9	-5,727.1			5.9
16,529	83.56	264.04	10,970	-613.4	-5,789.1			4.1
16,624	85.58	263.95	10,979	-623.3	-5,883.2			2.1

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,200	2,014	10,282

NOTIFICATIONS

[illegible]



DAILY DRILLING REPORT

RPT DATE:

RPT NUM.:

RIG:

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC007

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/13/2021

MD/TVD: 16752 FT/10980 FT

PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE

ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING

LEASE: UL JEFF EAST 17-27-5 TB

API #: 42475381370000

ELEVATION: 2681

DFS: 18.8

24 HR FTG: 651

RIG SUPERV: MICHAEL MCCARTY/JOSH GILMORE

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 68

HRS DRLG: 11

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		\$ 20,344	ROLFSON OIL	7200G OF DIESEL @ 2.8211/G
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	WATERFLEET DAILY RENTAL	\$ 560	WATERFLEET	WATER FLEET DAILY
2250-70	WELLDRIVE	\$ 50	WELLDRIVE	WELLDRIVE
2250-75	DELIVER MOTORS, BACKHAUL	\$ 400	TO A TEE	DELIVER 5" MOTOR #006998
2250-80	DRILLING ADVISOR	\$ 80	FOCUSED DRILLING & COMPLETIONS LLC	DRILLING ADVISOR
2250-80	WELLSITE SUPERVISOR ELWYN EVANS	\$ 2,000	OIL CITY DRILLING SERVICES, LLC	WELLSITE SUPERVISOR
2250-80	WELLSITE SUPERVISOR MICHAEL MCCARTY	\$ 2,000	WORKRISE	WELLSITE SUPERVISOR
2250-90	4.5" CET 43 DRILL PIPE RENTAL	\$ 2,418	CASEY EQUIPMENT, LTD	4.5" CET DRILL PIPE RENTAL W/ TAX
2250-90	4.5" CET 43 HW DRILL PIPE RENTAL	\$ 720	CASEY EQUIPMENT, LTD	4.5" CET HW DRILL PIPE RENTAL \$12/ JT
2250-90	DOG LEG REAMER DAILY FOOTAGE CHARG	\$ 977	DRILLING TOOLS INTERNATIONAL (DTI)	DRILL AND REAM @ \$1.50/FT, \$6K MIN/\$12K MAX
2250-90	DWS AGITATOR POWERGLIDE BALL DROP	\$ 16,000	DOWNHOLE WELL SOLUTIONS (DWS)	NEW AGITATOR SN: PG525-0079
2250-90	DWS AGITATOR POWERGLIDE PRIMARY	\$ 17,500	DOWNHOLE WELL SOLUTIONS (DWS)	NEW AGITATOR SN: PG525-0054
2250-95	ADS ROTATING HEAD	\$ 530	ADS	ROTATING HEAD
2250-95	B.O.P. POLLUTION CONTAINMENT	\$ 50	JOHNSON SPECIALTY TOOLS (JST)	BOP POLLUTION CONTAINMENT
2250-95	BOP SPOOL	\$ 44	MONAHANS NIPPLE-UP SERVICE	13 5/8" X 22" SPOOL
2250-95	FORKLIFTS, MAN LIFT, LIGHT TOWERS	\$ 578	SKEWL ENERGY SERVICES	FORKLIFTS, MAN LIFT, LIGHT TOWERS
2250-95	GENERATOR, PUMP, AND POLY LINE	\$ 169	JACK MILLSAP COMPANY, INC.	GENERATOR, PUMP, AND POLYLINE
2250-95	H2S MONITORING SYSTEM	\$ 81	CANON SAFETY SERVICES	H2S MONITORING
2250-95	INLINE SCREEN	\$ 75	BLACK DIAMOND	INLINE MUD SCREEN
2250-95	MUD VAC AND DIESEL SCREEN WASHER	\$ 121	EAST TEXAS SUPPLY	MUD VAC AND DIESEL SCREEN WASHER
2250-95	PRESSURE WASHER	\$ 55	SKEWL ENERGY SERVICES	PRESSURE WASHER
2250-95	PVT AND RIG MONITORING	\$ 792	NOV	TOTCO PVT AND RIG MONITORING
2250-95	ROCKIT	\$ 492	NABORS DRILLING SOLUTIONS	ROCKIT DAILY RENTAL
2250-95	STAGE 3	\$ 2,560	STAGE 3 SEPARATION	CENTRIFUGE, SHAKERS, HOG TROUGH, FIELD TECHS
2250-95	TANK FARM, PREMIX TANK, RESERVE PIT P	\$ 1,199	SKEWL ENERGY SERVICES	TANK FARM, PREMIX TANK, RESERVE PIT PUMPS
2250-95	X2 ADJ. POWER CHOKES, MANIFOLD	\$ 742	IRON HORSE TOOLS, INC.	2 SUPER CHOKES, MANIFOLD AND FLARE LINE.
2250-100	BHA - # 10	\$ 12,189	BAKER HUGHES BUSINESS SUPPORT SERVICE	
2250-115	DIRECTIONAL DRILLING & SURVEYS	\$ 7,345	TALLY DRILLING SERVICES	
2250-125	DRILLING & COMPLETION FLUIDS	\$ 2,837	AES DRILLING FLUIDS INC	
2250-125	MUD DIESEL	\$ 3,906	ROLFSON OIL	
2250-130	GEOSTEERING	\$ 475	DIVERSIFIED WELL LOGGING LLC	
2250-130	MUD LOGGING	\$ 925	IMPAC EXPLORATION SERVICES, INC.	
Total:		\$ 117,506		

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	02:30	2.5				TRIP OUT OF HOLE FOR LATERAL BHA ASSEMBLY (DOWN HOLE MOTOR FAILURE) F/ 5,000' - T/ 136' (WET FOR MINIMAL MOTOR MOVEMENT) @ 200 FPM INSIDE CASING, MONITORING DISP T/F TRIP TANK WELL TAKING CORRECT DISP. TOTAL CALC DISP: 126.3 BBLS, ACTUAL DISP: 147.3 BBLS, DIFFERENCE IN DISPLACEMENT: +21 BBLS, FLOW CHECK WELL AT FLOW CHECK WELL AT 5,000' (WELL STATIC) PULL ROTATING HEAD AND INSTALL TRIP NIPPLE W/ FLOW CHECKING WELL
			PRODUCTION DRILLING	TRIPS	CHANGE IN SCOPE	TOTAL FOOTAGE PULLED: 4,864', AVG PULLED PER HR: 1,945' FT/HR.
02:30	04:00	1.5				LAY DOWN 6 3/4" LATERAL BHA #9 AS FOLLOWS: BAKER DD406TWH, 3X14 3X16 JETS, 1.04 TFA, SN-5322124, 5.0" MOTOR 6/7 8.0STG FIXED SET AT 1.83 DEG 0.81REV/GAL, MAX TQ 7,760, MAX DIFF 1800, BIT TO BEND 3.43', KICK PAD OD 5.25" W/ 6.5" STAB, 1- 6.5" NORTTRACK STAB., 1-4.75" NMPC, 5" UBHO SUB, 3-5" NMDC, 1-5" NM FLEX DC, 5.75" XO, 1 STAND HWDP, DRILL AND REAM, PULL AND LAY DOWN MWD.
			PRODUCTION DRILLING	DIR WORK	CHANGE IN SCOPE	**WHEN ATTEMPTING TO DRAIN MOTOR, BIT BOX THROUGH BEARING SHAFT GUIDE SHIFTED 5/16" - 1/2" OFF CENTER, ATTEMPTED TO DRAIN MOTOR, BEARING POPPED AND RELEASED DRIVE BOX, NO DRAIN, NO INTERNAL SEALS, SHORT VIBRATION FELT 2- 3' ABOVE BIT NO INTERNAL ROTATION FELT. **BIT GRADE: 3-7-BT-N-X-G-CT-DTF **JSA & SAFETY CRITICAL SAFETY MEETING WITH ALL UNIT PERSONAL, DIRECTIONAL & COMP REP OVER JOB DETAILS, FOCUSING ON POTENTIAL HAZARDS AND ELIMINATING EXPOSURES
04:00	05:30	1.5				P/U & M/U 6 3/4" LATERAL BHA #10 AS FOLLOWS: BAKER DD406TWH, 3X14 3X16 JETS, 1.04 TFA, SN-5322137, 5.25" MOTOR 7/8 8.2STG FIXED SET AT 1.83 DEG 0.69REV/GAL, MAX TQ 9,800, MAX DIFF 2500, BIT TO BEND 3.70", KICK PAD OD 5.31" W/ 6.5" STAB, 1- 6.5" NORTTRACK STAB., 1-4.75" NMPC, 5" UBHO SUB, 4-5" NMDC, 5.75" XO, 1 STAND HWDP, TEST MWD @ 250 GPM WITH 1550 PSI (GOOD TEST) P/U DRILL AND REAM, 25 STANDS DP, 5" POWER PULSE AGITATOR, SN-PG525-0079 (2640' BACK), 35 STANDS DP, 5" ACTIVE PULSE AGITATOR, SN PG525-0054 (5941' BACK)
			PRODUCTION DRILLING	DIR WORK	CHANGE IN SCOPE	**JSA & SAFETY CRITICAL SAFETY MEETING WITH ALL UNIT PERSONAL, DIRECTIONAL & COMP REP OVER JOB DETAILS, FOCUSING ON POTENTIAL HAZARDS AND ELIMINATING EXPOSURES

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DAILY DRILLING REPORT

RPT DATE: 11/20/2021

RPT NUM.: 23

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC007

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/13/2021

MD/TVD: 17327 FT/10942 FT

PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE

ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING

LEASE: UL JEFF EAST 17-27-5 TB

API #: 42475381370000

ELEVATION: 2681

DFS: 19.8

24 HR FTG: 575

RIG SUPERV: MICHAEL MCCARTY/ELWYN EVANS

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 69

HRS DRLG: 22

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/20/2021	11/21/2021	None	MAKING CONNECTIONS, MIXING MUD CHEMICAL

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

RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021

0000 - 0600 : SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 17,327' - T/ 17,400' (73' @ 12 FPH) WOB: 20-42K, GPM: 300, PPSI: 4,400-4,800, DIFF: 100-245 PSI, TF - 180, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 80%LIMESTONE, 20% SHALE, BG GAS: 360U, CONN GAS: 2370U, MUD WEIGHT 12.0 IN/OUT W/58VIS

**100% SLIDE @ 180 TF, LOWERED GPM F/350 - T/300, ROP 15-20'/HR MAX, REDUCE PARAMETERS TO MAXIMIZE TOOL FACE CONTROL AND EFFICIENCY TO OVERCOME UPPER FORMATION DEFLECTION AND PUSH, CONTINUOUS INCLINATION SHOWING DROPPING SUCCESSFULLY OVERCOMING FORMATION PUSH AND DEFLECTION

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

DOWNTIME 0.0 HRS (0 HRS TOTAL)

NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$54,936	CUM DRILL COST: \$2,342,316	CUM MUD COST: \$159,745	CUM WELL COST: \$2,342,316
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BOP

LAST BOP TEST:	11/12/21	LAST BOP DRILL:	11/15/21	NEXT BOP TEST:	12/2/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	11.8	54.0			2	8	12	15	17	12	38,000			78.00	6.00	6.40

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
8	6.75	BAKER	DD406TWH	5322137	3x16, 3x14	1.040	N	16,101	17,327	1,226	30.6	25	203	40.0
7	6.75	BAKER HUGHES	DD406TWH	5322124	3x16, 3x14	1.040	N	11,344	16,101	4,757	94.5	32	243	50.4
BIT NO. 6		INNER: 1	OUTER: 2	DULL: WT	LOC: S	SEAL: 8	GAUGE: I	OTHER: NO	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	4.000	12.000	48	4700	300	3.10	95	12.77	290	357	14.28	1237
2	WEATHERFORD	EQ-2200	4.000	12.000	48	4700	300	3.10	95	12.77	290	357	14.28	1237

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker DD406TWH, 3-14", 3-16" TFA =1.04	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5.25" PDM 1.83deg FBH 7/8 8.2 Stg 0.69 rpg w/ 6	5.25		27.95	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od blades	6.5	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Drill Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5.062	2.688	2.91	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Stabilizer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA #2

LENGTH: 5,941.34

ROT. WT.: 195,000

BHA WT. AIR:

P.U. WT.: 255,000

BHA WT. MUD:

S.O. WT.: 155,000

HRS. ON JARS:

TORQUE: 16,220

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
16,530	83.56	264.04	10,970	-613.5	-5,790.1	5,807.7	4.1	
16,624	85.58	263.95	10,979	-623.3	-5,883.2	5,901.1	2.2	
16,719	89.05	263.07	10,983	-634.0	-5,977.4	5,995.8	3.8	
16,812	92.31	260.70	10,982	-647.1	-6,069.5	6,088.7	4.3	
16,905	93.23	259.38	10,978	-663.2	-6,161.0	6,181.6	1.7	
16,999	95.21	257.71	10,971	-681.8	-6,252.8	6,275.3	2.8	
17,092	93.80	255.52	10,964	-703.3	-6,343.0	6,367.8	2.8	
17,186	96.35	255.69	10,955	-726.6	-6,433.7	6,461.2	2.7	

CONSUMABLES

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

NOTIFICATIONS

TIME BREAKDOWN								
FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS		
00:00	05:30	5.5	PRODUCTION DRILLING	DRILLING		ROTATE & SLIDE DRILL 6 ½" PRODUCTION LATERAL F/ 16,752' - T/ 17,016 '(264' @ 48 FPH) WOB: 20-28K, GPM: 350, PPSI: 5,200-6,050, DIFF: 250-1030 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 80% SHALE, 20% LIMESTONE, BG GAS: 530U, CONN GAS: 1960U, MUD WEIGHT 11.7 IN/OUT W/57VIS, RUNNING CENTRIFUGE TO CONTROL LOW GRAVITY SOLIDS SLIDE F/ 16,789' -T/ 16,809' (20' @ 27 FPH) 21-52K WOB, 215-400DIFF, 350 GPM, TF- 90L SLIDE F/ 16,882' -T/ 16,910' (28' @ 25 FPH) 22-51K WOB, 210-420 DIFF, 350 GPM, TF- 150L SLIDE F/ 16,970' -T/ 17,016' (46' @ 14 FPH) 25-37K WOB, 200-450 DIFF, 350 GPM, TF- 170L		
05:30	06:30	1.0				PRODUCTION DRILLING	DIR WORK	LOST MWD UPDATES, RECYCLE PUMPS WITHOUT SUCCESS MULTIPLE TIMES, DOWNLINK TO MWD TO LOWER DATA RATE, 3 ATTEMPTS TO SUCCESSFUL DOWNLINK. RECYCLE AND VERIFY DOWNLINK.
06:30	16:30	10.0				PRODUCTION DRILLING	DRILLING	
16:30	17:00	0.5	PRODUCTION DRILLING	LUBRICATE RIG	RIG SERVICE / SERVICE TOP DRIVE.			
17:00	19:30	2.5	PRODUCTION DRILLING	DRILLING				
19:30	20:00	0.5				PRODUCTION DRILLING	DIR WORK	CHANGE QUT MWD TRANSDUCER.



DAILY DRILLING REPORT

RPT DATE: 11/21/2021

RPT NUM.: 24

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC007
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/13/2021
MD/TVD: 17625 FT/10934 FT
PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE AHEAD
ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST 17-27-5 TB
API #: 42475381370000
ELEVATION: 2681
DFS: 20.8
24 HR FTG: 298

RIG SUPERV: MICHAEL MCCARTY/ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 70
HRS DRLG: 24

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/20/2021	10/21/2021	None	CLEANING RIG WITH HIGH PRESSURE WASH GUN, MAKING CONNECTIONS, TRANSFERRING 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			
TD JEFF EAST 17-27-5 WA 1H @ 13:00 HRS, 11/8/2021			
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021			
00:00 - 06:00 ROTATE & SLIDE DRILL 6 7/8" PRODUCTION LATERAL F/ 17,625' - T/ 17,818' (193' @ 32 FPH) WOB: 25-29K, GPM: 300, PPSI: 4,400-5,500, DIFF: 630-950 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 80% SHALE, 20% LIMESTONE, BG GAS: 440U, CONN GAS: 2430U, MUD WEIGHT 12.0 IN/OUT W/58VIS			
SLIDE F/ 17,625' -T/ 17,644' (19' @ 15 FPH) 10-15K WOB, 220-370DIFF, 300 GPM, TF- 180			
SLIDE F/ 17,734' -T/ 17,754' (20' @ 10 FPH) 13-12K WOB, 170-330DIFF, 300 GPM, TF- 90R			

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

DOWNTIME 0.0 HRS (0 HRS TOTAL)

NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$60,945	CUM DRILL COST: \$2,403,261	CUM MUD COST: \$175,228	CUM WELL COST: \$2,403,261
BOP				
LAST BOP TEST:	11/12/21	LAST BOP DRILL:	11/15/21	NEXT BOP TEST: 12/2/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	

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	57.0			2	9	14	16	17	14	38,000			78.00	5.90	6.60

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
8	6.75	BAKER	DD406TWH	5322137	3x16, 3x14	1.040	N	16,101	17,625	1,524	53.8	28	203	28.3
7	6.75	BAKER HUGHES	DD406TWH	5322124	3x16, 3x14	1.040	N	11,344	16,101	4,757	94.5	32	243	50.4

BIT NO. 6 INNER: 1 OUTER: 2 DULL: WT LOC: S SEAL: 8 GAUGE: I OTHER: NO 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	4.000	12.000	48	5020	300	3.10	95	13	290	357	14.28	1114
2	WEATHERFORD	EQ-2200	4.000	12.000	48	5020	300	3.10	95	13	290	357	14.28	1114

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker DD406TWH, 3-14",3-	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5.25" PDM 1.83deg FBH 7/8 8.2 St	5.25		27.95	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	6.5	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Drill Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5.062	2.688	2.91	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Stabilizer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA #2

LENGTH: 5,941.34

ROT. WT.: 205,000

BHA WT. AIR:

P.U. WT.: 260,000

BHA WT. MUD:

S.O. WT.: 145,000

HRS. ON JARS:

TORQUE: 20,500

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
16,905	93.23	259.38	10,978		-663.2	-6,161.0	6,181.6	1.7
16,999	95.21	257.71	10,971		-681.8	-6,252.8	6,275.3	2.8
17,092	93.80	255.52	10,964		-703.3	-6,343.0	6,367.8	2.8
17,186	96.35	255.69	10,955		-726.6	-6,433.7	6,461.2	2.7
17,280	99.21	255.52	10,943		-749.7	-6,523.9	6,554.1	3.1
17,375	97.05	256.40	10,929		-772.5	-6,615.1	6,647.9	2.5
17,470	91.82	254.64	10,922		-796.2	-6,706.8	6,742.3	5.8
17,564	85.49	251.30	10,924		-823.7	-6,796.6	6,835.5	7.6

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,408	5,636

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPERATOR #2	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721
10/6/2021	11:00	INTERMEDIATE	PATRICK OWENS	TRRC	OPERATOR MARY	INTERMEDIATE CASING AND CEMENT
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	24	240
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HRS)		13	168	1,680
AES DRILLING FLUIDS		MUD ENGINEER		1	24	240
TALLY ENERGY		2DD'S, 2 MWD HANDS		4	48	480
STAGE 3		2 SOLID CONTROL HANDS		2	24	240
IMPAC		2 MUD LOGGERS		2	24	240
www.wellEZ.com WellEZ On Demand ver. 11.04.2021 TW						

[illegible]



DAILY DRILLING REPORT

RPT DATE: 11/22/2021

RPT NUM.: 25

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC007

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/13/2021

MD/TVD: 18309 FT/10991 FT

PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE

ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING

LEASE: UL JEFF EAST 17-27-5 TB

API #: 42475381370000

ELEVATION: 2681

DFS: 21.8

24 HR FTG: 684

RIG SUPERV: MICHAEL MCCARTY/ELWYN EVANS.

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 71

HRS DRLG: 23.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/21/2021	11/22/2021	None	KEEPING MINDS ON TASK, MIXING MUD CHEMICAL, TRANSFERRING 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

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

RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021

00:00 - 06:00 ROTATE & SLIDE DRILL 6 7/8" PRODUCTION LATERAL F/ 18,309' - T/ 18,430' (121' @ 20 FPH) WOB: 20-26K, GPM: 300, PPSI: 4,800-5,400, DIFF: 600-930 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90% SHALE, 10% LIMESTONE, BG GAS: 490U, CONN GAS: 1715U, MUD WEIGHT 12.0 IN/OUT W/56VIS

SLIDE F/ 18,309' -T/ 18,352' (43' @ 10 FPH) 20-47K WOB, 100-350DIFF, 300-350 GPM, TF - 160R

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

DOWNTIME 0.0 HRS (0 HRS TOTAL)

NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300 DAILY DRILL COST: \$55,869 CUM DRILL COST: \$2,459,156 CUM MUD COST: \$186,338 CUM WELL COST: \$2,459,156

BOP

LAST BOP TEST: 11/12/21 LAST BOP DRILL: 11/15/21 NEXT BOP TEST: 12/2/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	

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	57.0			2	9	14	16	18	13	38,000			77.00	5.90	6.20

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
8	6.75	BAKER	DD406TWH	5322137	3x16, 3x14	1.040	N	16,101	18,309	2,208	76.8	26	203	28.7
7	6.75	BAKER HUGHES	DD406TWH	5322124	3x16, 3x14	1.040	N	11,344	16,101	4,757	94.5	32	243	50.4

BIT NO. 6 INNER: 1 OUTER: 2 DULL: WT LOC: S SEAL: 8 GAUGE: I OTHER: NO 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	4.000	12.000	48	5300	300	3.10	95	13.04	290	357	14.28	1114
2	WEATHERFORD	EQ-2200	4.000	12.000	48	5300	300	3.10	95	13.04	290	357	14.28	1114

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker DD406TWH, 3-14',3-	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5.25" PDM 1.83deg FBH 7/8 8.2 St	5.25		27.95	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	6.5	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Drill Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5.062	2.688	2.91	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Stabilizer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA #2

LENGTH: 5,941.34

ROT. WT.: 205,000

BHA WT. AIR:

P.U. WT.: 263,000

BHA WT. MUD:

S.O. WT.: 140,000

HRS. ON JARS:

TORQUE: 18,200

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
17,564	85.49	251.30	10,924		-823.7	-6,796.6	6,835.5	7.6
17,659	81.23	247.96	10,935		-856.5	-6,885.0	6,928.4	5.7
17,753	81.41	248.92	10,949		-890.7	-6,971.5	7,019.4	1.0
17,848	81.01	250.42	10,964		-923.3	-7,059.5	7,111.8	1.6
17,942	82.24	250.51	10,977		-954.4	-7,147.1	7,203.6	1.3
18,036	86.24	252.00	10,987		-984.4	-7,235.7	7,296.0	4.5
18,129	88.79	252.26	10,991		-1,012.9	-7,324.1	7,388.1	2.8
18,222	90.15	252.62	10,992		-1,041.0	-7,412.8	7,480.3	1.5

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,093	3,543

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPERATOR #1	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	06:00	6.0	PRODUCTION DRILLING	DRILLING		ROTATE & SLIDE DRILL 6 ½" PRODUCTION LATERAL F/ 17,625' - T/ 17,818 '(193' @ 32 FPH) WOB: 25-29K, GPM: 300, PPSI: 4,400-5,500, DIFF: 630-950 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 80% SHALE, 20%LIMESTONE, BG GAS: 440U, CONN GAS: 2430U, MUD WEIGHT 12.0 IN/OUT W/58VIS SLIDE F/ 17,625' -T/ 17,644' (19' @ 15 FPH) 10-15K WOB, 220-370DIFF, 300 GPM, TF- 180 SLIDE F/ 17,734' -T/ 17,754' (20' @ 10 FPH) 13-12K WOB, 170-330DIFF, 300 GPM, TF- 90R SLIDE F/ 17,796' -T/ 17,818' (22' @ 11 FPH) 15-32K WOB, 120-310DIFF, 300 GPM, TF- 120R
06:00	13:30	7.5	PRODUCTION DRILLING	DRILLING		ROTATE & SLIDE DRILL 6 ½" PRODUCTION LATERAL F/ 17,818' - T/ 17,939' (121' @ 16 FPH) WOB: 25-30K, GPM: 300-350, PPSI: 4,400-5,800, DIFF: 870-930 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 70% SHALE, 30%LIMESTONE, BG GAS: 285U, CONN GAS: 3360U, MUD WEIGHT 12.0 IN/OUT W/56VIS SLIDE F/ 17,818' -T/ 17,841' (23' @ 11.5 FPH) 14-26K WOB, 210-380DIFF, 300 GPM, TF- 90R SLIDE F/ 17,880' -T/ 17,939' (59' @ 12 FPH) 14-27K WOB, 140-430DIFF, 300-350 GPM, TF- 80R
13:30	14:00	0.5	PRODUCTION DRILLING	LUBRICATE RIG		RIG SERVICE
14:00	18:00	4.0	PRODUCTION DRILLING	DRILLING		ROTATE & SLIDE DRILL 6 ½" PRODUCTION LATERAL F/ 17,939' - T/ 18,072' (133' @ 33 FPH) WOB: 25-35K, GPM: 300, PPSI: 4,400-5,550, DIFF: 800-1390 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 60% SHALE, 40%LIMESTONE, BG GAS: 680U, CONN GAS: 3530U, MUD WEIGHT 12.0 IN/OUT W/54VIS SLIDE F/ 17,972' -T/ 17,995' (23' @ 8 FPH) 21-45K WOB, 100-296DIFF, 250 GPM, TF - 80R
18:00	00:00	6.0	PRODUCTION DRILLING	DRILLING		ROTATE & SLIDE DRILL 6 ½" PRODUCTION LATERAL F/ 18,072' - T/ 18,309' (237' @ 39.5 FPH) WOB: 26K, GPM: 300, PPSI: 4,900-5,400, DIFF: 600-860 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90% SHALE, 10% LIMESTONE, BG GAS: 880U, CONN GAS: 3220U, MUD WEIGHT 12.0 IN/OUT W/58VIS SLIDE F/ 18,194' -T/ 18,224' (30' @ 12 FPH) 35-47K WOB, 110-420DIFF, 300 GPM, TF - 150R SLIDE F/ 18,287' -T/ 18,309' (22' @ 11 FPH) 20-29K WOB, 150-410DIFF, 300 GPM, TF - 160R



DAILY DRILLING REPORT

RPT DATE: 11/23/2021

RPT NUM.: 26

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H

FIELD: PHANTOM (WOLFCAMP)

APE #: 21DC007

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/13/2021

MD/TVD: 18757 FT/10993 FT

PRESENT OPERATIONS: DRILLING 6.75" LATERAL AHEAD

ACTIVITY PLANNED: DRILL 6.75" LATERAL AHEAD

JOB: DRILLING

LEASE: UL JEFF EAST 17-27-5 TB

API #: 42475381370000

ELEVATION: 2681

DFS: 22.8

24 HR FTG: 448

RIG SUPERV: MICHAEL MCCARTY/ELWYN EVANS.

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 72

HRS DRLG: 23.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/23/2021	11/24/2021	None	FIRST SHIFT BACK, USING HIGH PRESSURE WASH GUN, 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			
TD JEFF EAST 17-27-5 WA 1H @ 13:00 HRS, 11/8/2021			
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021			
00:00-06:00 SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 18,757' - T/ 18,810' (53' @ 8.8 FPH) WOB: 22-53K, GPM: 350, PPSI: 5,500-5,900, DIFF: 135-340 PSI, TF- 180 TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90% SHALE, 10% LIMESTONE, BG GAS: 230U, CONN GAS: 2530U, MUD WEIGHT 12.0 IN/OUT W/54VIS			

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

DOWNTIME 0.0 HRS (0 HRS TOTAL)

NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$80,036	CUM DRILL COST: \$2,539,435	CUM MUD COST: \$201,241	CUM WELL COST: \$2,539,435
BOP				
LAST BOP TEST:	11/12/21	LAST BOP DRILL:	11/15/21	NEXT BOP TEST: 12/2/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	

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	9	13	15	17	13	3,800			77.00	6.10	6.20

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
8	6.75	BAKER	DD406TWH	5322137	3x16, 3x14	1.040	N	16,101	18,757	2,656	100.2	35	242	26.5
7	6.75	BAKER HUGHES	DD406TWH	5322124	3x16, 3x14	1.040	N	11,344	16,101	4,757	94.5	32	243	50.4

BIT NO. 6 INNER: 1 OUTER: 2 DULL: WT LOC: S SEAL: 8 GAUGE: I OTHER: NO 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	4.000	12.000	56	5300	350	3.10	95	13.41	338	417	23.06	1361
2	WEATHERFORD	EQ-2200	4.000	12.000	56	5300	350	3.10	95	13.41	338	417	23.06	1361

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker DD406TWH, 3-14',3-	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5.25" PDM 1.83deg FBH 7/8 8.2 St	5.25		27.95	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	6.5	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Drill Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5.062	2.688	2.91	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Stabilizer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA #2

LENGTH: 5,941.34

ROT. WT.: 199,000

BHA WT. AIR:

P.U. WT.: 260,000

BHA WT. MUD:

S.O. WT.: 130,000

HRS. ON JARS:

TORQUE: 15,600

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
18,036	86.24	252.00	10,987		-984.4	-7,235.7	7,296.0	4.5
18,129	88.79	252.26	10,991		-1,012.9	-7,324.1	7,388.1	2.8
18,222	90.15	252.62	10,992		-1,041.0	-7,412.8	7,480.3	1.5
18,316	87.30	252.97	10,994		-1,068.8	-7,502.5	7,573.5	3.1
18,410	87.12	252.26	10,998		-1,096.8	-7,592.1	7,666.7	0.8
18,504	92.79	253.49	10,998		-1,124.5	-7,681.9	7,759.9	6.2
18,599	92.79	253.49	10,994		-1,151.5	-7,772.9	7,854.2	
18,694	91.47	252.79	10,990		-1,179.0	-7,863.7	7,948.5	1.6

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,385	2,697	8,231

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPERATOR #2	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721
10/6/2021	11:00	INTERMEDIATE	PATRICK OWENS	TRRC	OPERATOR MARY	INTERMEDIATE CASING AND CEMENT

[illegible]



DAILY DRILLING REPORT

RPT DATE: 11/24/2021

RPT NUM.: 27

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H	JOB: DRILLING	RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 TB	RIG PHONE: 432-355-3112
AFE #: 21DC007	API #: 42475381370000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/13/2021	DFS: 23.8	DOL: 73
MD/TVD: 18835 FT/10990 FT	24 HR FTG: 78	HRS DRLG: 8
PRESENT OPERATIONS: TRIPPING IN THE HOLE WITH BHA #11		
ACTIVITY PLANNED: CONTINUE TRIPPING IN THE HOLE, DRILL 6.75" LATERAL AHEAD		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/24/2021	11/25/2021	None	TRIPPING, WORKING WITH 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			
TD JEFF EAST 17-27-5 WA 1H @ 13:00 HRS, 11/8/2021			
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021			
00:00 – 02:00 T.I.H WITH LATERAL BHA. PICK UP SECOND AGITATOR AT 7480'. PUMP PRESSURE BEFORE PICKING UP AGITATOR- 2,600 PSI, AFTER 3,050 PSI AT 300 GPM (450 PSI/DROP)			
02:00 – 04:00 T.I.H TO ABOVE INTERMEDIATE SHOE @ 10,934', PULL TRIP NIPPLE AND INSTALL ROTATING HEAD, SLIP AND CUT DRILL LINE			
04:00 – 06:00 T.I.H WITH LATERAL BHA			
LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)			
NO ACCIDENTS, INCIDENTS, OR SPILLS			
DOWNTIME 0.0 HRS (0 HRS TOTAL)			
NPT: 0 HRS (10 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$69,710	CUM DRILL COST: \$2,610,872	CUM MUD COST: \$208,984	CUM WELL COST: \$2,610,872
BOP				
LAST BOP TEST:	11/12/21	LAST BOP DRILL:	11/15/21	NEXT BOP TEST: 12/2/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,968

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	57.0			2	9	14	17	18	13	37,000			77.00	6.00	6.00

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
8	6.75	BAKER	DD406TWH	5322137	3x16, 3x14	1.040	N	16,101	18,835	2,734	107.3	35	242	25.5
7	6.75	BAKER HUGHES	DD406TWH	5322124	3x16, 3x14	1.040	N	11,344	16,101	4,757	94.5	32	243	50.4

BIT NO. 8	INNER: 1	OUTER: 2	DULL: CT	LOC: S	SEAL: X	GAUGE: I	OTHER: NO	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	4.000	12.000	56	5300	350	3.10	95	13.41	338	417	23.06	1361
2	WEATHERFORD	EQ-2200	4.000	12.000	56	5300	350	3.10	95	13.41	338	417	23.06	1361

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Baker DD406TWH, 3-14'3-	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5.25" PDM 1.83deg FBH 7/8 8.2 St	5.25		27.95	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	6.5	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Drill Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5.062	2.688	2.91	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Stabilizer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA #2	BHA WT. AIR:	BHA WT. MUD:	HRS. ON JARS:
LENGTH: 5,941.34	P.U. WT.: 265,000	S.O. WT.: 130,000	TORQUE: 16,500
ROT. WT.: 195,000			

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
18,036	86.24	252.00	10,987		-984.4	-7,235.7	7,296.0	4.5
18,129	88.79	252.26	10,991		-1,012.9	-7,324.1	7,388.1	2.8
18,222	90.15	252.62	10,992		-1,041.0	-7,412.8	7,480.3	1.5
18,316	87.30	252.97	10,994		-1,068.8	-7,502.5	7,573.5	3.1
18,410	87.12	252.26	10,998		-1,096.8	-7,592.1	7,666.7	0.8
18,504	92.79	253.49	10,998		-1,124.5	-7,681.9	7,759.9	6.2
18,599	92.79	253.49	10,994		-1,151.5	-7,772.9	7,854.2	
18,694	91.47	252.79	10,990		-1,179.0	-7,863.7	7,948.5	1.6

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,679	6,552

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPERATOR #2	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721
10/6/2021	11:00	INTERMEDIATE	PATRICK OWENS	TRRC	OPERATOR MARY	INTERMEDIATE CASING AND CEMENT
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	24	312
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HRS)		13	168	2,184
AES DRILLING FLUIDS		MUD ENGINEER		1	24	312
TALLY ENERGY		2DD'S, 2 MWD HANDS		4	48	624
STAGE 3		2 SOLID CONTROL HANDS		2	24	312
IMPAC		2 MUD LOGGERS		2	24	312
www.wellez.com WellEz On Demand ver. 11.04.2021 TW						

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DAILY DRILLING REPORT

RPT DATE: 11/25/2021

RPT NUM.: 28

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC007
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/13/2021
MD/TVD: 19266 FT/11006 FT
PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE AHEAD
ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST 17-27-5 TB
API #: 42475381370000
ELEVATION: 2681
DFS: 24.8
24 HR FTG: 431

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 74
HRS DRLG: 15

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/25/2021	11/26/2021	None	DRILLING AHEAD, MIXING MUD CHEMICAL, GREEN HAND ORIENTATIONS

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
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021

00:00-06:00 ROTATE & SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 19,266' - T/ 19,460' (194' @ 32 FPH) WOB: 18-24K, GPM: 350, PPSI: 5,500-6,300, DIFF: 570-775 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 80% SHALE, 20% LIMESTONE, BG GAS: 280U, CONN GAS: 2110U, MUD WEIGHT 12.0 IN/OUT W/56VIS

SLIDE F/ 19,266' -T/ 19,274' (8' @ 15 FPH) 28-35K WOB, 190-320DIFF, 350 GPM, TF - 150L
SLIDE F/ 19,384' -T/ 19,400' (16' @ 8 FPH) 28-37K WOB, 100-320DIFF, 350 GPM, TF - 20L

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

DOWNTIME 0.0 HRS (0 HRS TOTAL)

NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300 DAILY DRILL COST: \$105,439 CUM DRILL COST: \$2,716,311 CUM MUD COST: \$216,260 CUM WELL COST: \$2,716,311

BOP

LAST BOP TEST: 11/12/21 LAST BOP DRILL: 11/15/21 NEXT BOP TEST: 12/2/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,968

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	8	13	16	17	13	36,000			78.00	6.00	6.00

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5373	6x15	1.035	N	18,835	19,266	431	13.9	26	175	31.1
8	6.75	BAKER	DD406TWH	5322137	3x16, 3x14	1.040	N	16,101	18,835	2,734	107.3	35	242	25.5

BIT NO. 8 INNER: 1 OUTER: 2 DULL: CT LOC: S SEAL: X GAUGE: I OTHER: NO 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	4.000	12.000	56	5700	350	3.10	95	13.37	338	417	23.06	1361
2	WEATHERFORD	EQ-2200	4.000	12.000	56	5700	350	3.10	95	13.37	338	417	23.06	1361

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613, 6-15's, TFA =	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5 1/2" PDM 1.83 FBH, 7/8 8.5 RPG	5.5	1.25	34.61	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Monel Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5	2.688	2.91	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Reamer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA #3

LENGTH: 7,481.19

ROT. WT.: 200,000

BHA WT. AIR:

P.U. WT.: 255,000

BHA WT. MUD:

S.O. WT.: 150,000

HRS. ON JARS:

TORQUE: 11,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
18,504	92.79	253.49	10,998		-1,124.5	-7,681.9	7,759.9	6.2
18,599	92.79	253.49	10,994		-1,151.5	-7,772.9	7,854.2	
18,694	91.47	252.79	10,990		-1,179.0	-7,863.7	7,948.5	1.6
18,795	92.66	254.55	10,987		-1,207.4	-7,960.6	8,048.9	2.1
18,891	87.65	256.40	10,986		-1,231.5	-8,053.5	8,144.5	5.6
18,985	83.56	256.13	10,994		-1,253.7	-8,144.5	8,238.1	4.4
19,080	87.78	258.07	11,001		-1,274.8	-8,236.8	8,332.7	4.9
19,175	89.23	258.68	11,003		-1,294.0	-8,329.9	8,427.6	1.7

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,503	2,959	11,096

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPERATOR #1	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721

[illegible]



DAILY DRILLING REPORT

RPT DATE: 11/26/2021

RPT NUM.: 29

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC007
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/13/2021
MD/TVD: 20221 FT/11004 FT
PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE AHEAD
ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST 17-27-5 TB
API #: 42475381370000
ELEVATION: 2681
DFS: 25.8
24 HR FTG: 955

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 75
HRS DRLG: 23.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/26/2021	11/27/2021	None	MAKING CONNECTIONS, USING FORKLIFT
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			
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021			
00:00-06:00 ROTATE & SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 20,221'- T/ 20,400' (179' @ 30 FPH) WOB: 18-22K, GPM: 322-350, PPSI: 4,800-6,300, DIFF: 400-640 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 100% SHALE BG GAS: 340U, CONN GAS: 2280U, MUD WEIGHT 12.1 IN/OUT W/56VIS			
SLIDE F/ 20,287' -T/ 20,307' (20' @ 11 FPH) 40K WOB, 125DIFF, 350 GPM, TF - 80R			
SLIDE F/ 20,380' -T/ 20,400' (20' @ 11 FPH) 28-40K WOB, 155DIFF, 350 GPM, TF - 80R			
LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)			
NO ACCIDENTS, INCIDENTS, OR SPILLS			
DOWNTIME 0.0 HRS (0 HRS TOTAL)			
NPT: 0 HRS (10 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,681,300 DAILY DRILL COST: \$58,491 CUM DRILL COST: \$2,778,410 CUM MUD COST: \$229,144 CUM WELL COST: \$2,778,410

BOP

LAST BOP TEST: 11/12/21 LAST BOP DRILL: 11/15/21 NEXT BOP TEST: 12/2/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,968

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	54.0			2	7	11	15	17	12	35,500			77.00	6.10	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5373	6x15	1.035	N	18,835	20,221	1,386	35.0	22	175	39.7
8	6.75	BAKER	DD406TWH	5322137	3x16, 3x14	1.040	N	16,101	18,835	2,734	107.3	35	242	25.5

BIT NO. 8 INNER: 1 OUTER: 2 DULL: CT LOC: S SEAL: X GAUGE: I OTHER: NO 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	4.000	12.000	56	6200	350	3.10	95	13.51	338	417	23.06	1361
2	WEATHERFORD	EQ-2200	4.000	12.000	56	6200	350	3.10	95	13.51	338	417	23.06	1361

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613, 6-15's, TFA =	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5 1/2" PDM 1.83 FBH, 7/8 8.5 RPG	5.5	1.25	34.61	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Monel Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5	2.688	2.91	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Reamer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA #3

LENGTH: 7,481.19

ROT. WT.: 20,000

BHA WT. AIR:

P.U. WT.: 255,000

BHA WT. MUD:

S.O. WT.: 150,000

HRS. ON JARS:

TORQUE: 10,600

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
19,550	90.90	254.90	11,022		-1,380.6	-8,694.1	8,801.3	4.1
19,644	91.60	255.25	11,019		-1,404.8	-8,784.9	8,895.0	0.8
19,738	91.74	254.20	11,017		-1,429.5	-8,875.5	8,988.6	1.1
19,832	92.18	253.76	11,014		-1,455.5	-8,965.8	9,082.0	0.7
19,925	92.35	254.37	11,010		-1,481.0	-9,055.2	9,174.5	0.7
20,019	90.46	252.35	11,008		-1,507.9	-9,145.2	9,267.8	2.9
20,112	91.25	252.44	11,006		-1,536.0	-9,233.8	9,360.0	0.9
20,207	90.29	250.24	11,005		-1,566.4	-9,323.8	9,454.0	2.5

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,928	9,168

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPERATOR #1	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721

[illegible]



DAILY DRILLING REPORT

RPT DATE: 11/27/2021

RPT NUM.: 30

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC007
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/13/2021
MD/TVD: 20714 FT/10995 FT
PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE AHEAD
ACTIVITY PLANNED: DRILL 6.75" LATERAL HOLE AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST 17-27-5 TB
API #: 42475381370000
ELEVATION: 2681
DFS: 26.8
24 HR FTG: 493

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB: 2702
DOL: 76
HRS DRLG: 24

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/27/2021	11/28/2021	None	MAN LIFT OPERATIONS, WORKING ON TOP OF BUILDINGS, TIE OFF PROCEDURES
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			
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021			

00:00-06:00 ROTATE & SLIDE DRILL 6 3/4" PRODUCTION LATERAL F/ 20,714'- T/ 20,780' (66' @ 11 FPH) WOB: 18-22K, GPM: 300-322, PPSI: 4,500-5,760, DIFF: 470-640 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 40% SHALE, TRACE LIMESTONE, 60% SLTST, BG GAS: 360U, CONN GAS: 210SU, MUD WEIGHT 12.1 IN/OUT W/55VIS

SLIDE F/ 20,714'-T/ 20,731' (17' @ 6 FPH) 25-52K WOB, 260-450 DIFF, 300 GPM, TF - 130R

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

DOWNTIME 0.0 HRS (0 HRS TOTAL)

NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300 DAILY DRILL COST: \$82,641 CUM DRILL COST: \$2,861,051 CUM MUD COST: \$246,285 CUM WELL COST: \$2,861,051

BOP

LAST BOP TEST: 11/12/21 LAST BOP DRILL: 11/15/21 NEXT BOP TEST: 12/2/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,968

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	8	11	15	18	13	35,000						77.00	5.90	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	JP5373	6x15	1.035	N	18,835	20,714	1,879	57.5	22	150	32.7
8	6.75	BAKER	DD406TWH	5322137	3x16, 3x14	1.040	N	16,101	18,835	2,734	107.3	35	242	25.5
BIT NO. 8		INNER: 1	OUTER: 2	DULL: CT	LOC: S	SEAL: X	GAUGE: I	OTHER: NO	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	4.000	12.000	48	4700	300	3.10	95	13.28	290	357	23.06	1361
2	WEATHERFORD	EQ-2200	4.000	12.000	48	4700	300	3.10	95	13.28	290	357	23.06	1361

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613, 6-15's, TFA =	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5 1/2" PDM 1.83 FBH, 7/8 8.5 RPG	5.5	1.25	34.61	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Monel Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5	2.688	2.91	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Reamer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA #3

LENGTH: 7,481.19

ROT. WT.: 200,000

BHA WT. AIR:

P.U. WT.: 245,000

BHA WT. MUD:

S.O. WT.: 170,000

HRS. ON JARS:

TORQUE: 20,900

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
19,925	92.35	254.37	11,010		-1,481.0	-9,055.2	9,174.5	0.7
20,019	90.46	252.35	11,008		-1,507.9	-9,145.2	9,267.8	2.9
20,112	91.25	252.44	11,006		-1,536.0	-9,233.8	9,360.0	0.9
20,207	90.29	250.24	11,005		-1,566.4	-9,323.8	9,454.0	2.5
20,301	90.51	249.10	11,004		-1,599.0	-9,412.0	9,546.5	1.2
20,395	91.69	248.75	11,002		-1,632.8	-9,499.6	9,638.7	1.3
20,489	92.44	249.98	10,999		-1,665.9	-9,587.6	9,731.1	1.5
20,583	91.56	247.17	10,996		-1,700.3	-9,675.0	9,823.2	3.1

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,310	3,048	13,430

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPPERATOR #2	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721
10/6/2021	11:00	INTERMEDIATE	PATRICK OWENS	TRRC	OPERATOR MARY	INTERMEDIATE CASING AND CEMENT

[illegible]



DAILY DRILLING REPORT

RPT DATE: 11/28/2021

RPT NUM.: 31

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H	JOB: DRILLING	RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 TB	RIG PHONE: 432-355-3112
AFE #: 21DC007	API #: 42475381370000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/13/2021	DFS: 27.8	DOL: 77
MD/TVD: 21409 FT/11008 FT	24 HR FTG: 695	HRS DRLG: 17.5
PRESENT OPERATIONS: CONDITION AND CIRCULATE MUD PRIOR TO TRIPPING FOR LINER		
ACTIVITY PLANNED: TRIP OUT, LAY DOWN BHA, RIG TO AND BEGIN RUNNING LINER		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/28/2021	11/29/2021	None	TRIPPING, MIXING MUD CHEMICAL, USING AIR MUD BUCKET
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			
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021			
00:00 – 06:00 BEGIN PULLING 10 STANDS DUMMY TRIP, SOME OVER PULL ON STAND 8 (20,212'), PULLED TIGHT ON STAND 9 35K OVER (20,119'), UNABLE TO SLACK OFF, SCREW IN AND REAM DOWN BELOW TIGHT SPOTS TO 20,285'			
BEGIN BACKREAMING 5 STANDS, TRY TO DRY PULL @ 19,873' PULLED 35 OVER, CONTINUE BACKREAMING 3 STANDS TO 19,630'			
DRY PULL 5 STANDS FROM 19,630' TO 19,256' P/U EXCELLENT WITH NO OVERPULL AND IMPROVING			
04:00 – 05:00 TRIP IN TO BOTTOM ON ELEVATORS NO ISSUES			
05:00 – 06:00 CONDITION AND CIRCULATE MUD, CIRCULATE BOTTOMS UP, GPM 350, RPM 75, SPP 6,080 TQ 10,200			
LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)			
NO ACCIDENTS, INCIDENTS, OR SPILLS			
DOWNTIME 0.0 HRS (0 HRS TOTAL)			
NPT: 0 HRS (10 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$64,071	CUM DRILL COST: \$2,931,586	CUM MUD COST: \$266,211	CUM WELL COST: \$2,931,586
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BOP

LAST BOP TEST: 11/12/21	LAST BOP DRILL: 11/15/21	NEXT BOP TEST: 12/2/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,968

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	54.0			2	9	12	15	19	13	34,000					77.00	6.00	6.20

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5373	6x15	1.035	N	18,835	21,409	2,574	73.9	24	161	34.9
8	6.75	BAKER	DD406TWH	5322137	3x16, 3x14	1.040	N	16,101	18,835	2,734	107.3	35	242	25.5
BIT NO. 8		INNER: 1	OUTER: 2	DULL: CT	LOC: S	SEAL: X	GAUGE: I	OTHER: NO	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	4.000	12.000	52	6000	322	3.10	95	13.28	311	383	18.26	1361
2	WEATHERFORD	EQ-2200	4.000	12.000	52	6000	322	3.10	95	13.28	311	383	18.26	1361

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613, 6-15's, TFA =	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5 1/2" PDM 1.83 FBH, 7/8 8.5 RPG	5.5	1.25	34.61	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Monel Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5	2.688	2.91	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Reamer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA #3

LENGTH: 7,481.19

ROT. WT.: 198,000

BHA WT. AIR:

P.U. WT.: 245,000

BHA WT. MUD:

S.O. WT.: 165,000

HRS. ON JARS:

TORQUE: 23,200

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
20,772	88.13	250.51	10,993	-1,769.7	-9,850.7		10,008.4	4.6
20,864	88.00	251.82	10,996	-1,799.4	-9,937.7		10,099.3	1.4
20,958	87.16	251.03	11,000	-1,829.3	-10,026.7		10,192.2	1.2
21,053	87.69	251.30	11,005	-1,859.9	-10,116.6		10,286.0	0.6
21,147	89.45	252.79	11,007	-1,888.9	-10,206.0		10,379.1	2.5
21,241	90.07	251.12	11,007	-1,918.0	-10,295.3		10,472.2	1.9
21,336	89.54	251.03	11,008	-1,948.8	-10,385.2		10,566.1	0.6
21,409	89.54	251.03	11,008	-1,972.5	-10,454.2		10,638.2	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,598	10,832

NOTIFICATIONS

[illegible]

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	06:00	6.0				ROTATE & SLIDE DRILL 6 ½" PRODUCTION LATERAL F/ 20,714'- T/ 20,780' (66' @ 11 FPH) WOB: 18-22K, GPM: 300-322, PPSI: 4,500-5,760, DIFF: 470-640 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 40% SHALE, TRACE LIMESTONE, 60% SLTST, BG GAS: 360U, CONN GAS: 2105U, MUD WEIGHT 12.1 IN/OUT W/55VIS
			PRODUCTION DRILLING	DRILLING		SLIDE F/ 20,714'-T/ 20,731' (17' @ 6 FPH) 25-52K WOB, 260-450 DIFF, 300 GPM, TF - 130R
06:00	14:30	8.5				ROTATE & SLIDE DRILL 6 ½" PRODUCTION LATERAL F/ 20,780'- T/ 21,123' (343' @ 40.4 FPH) WOB: 18-24K, GPM: 300-322, PPSI: 4,500-6,100, DIFF: 550-7800 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90% SHALE, 10% LIMESTONE, BG GAS: 430U, CONN GAS: 2120U, MUD WEIGHT 12.2 IN/OUT W/55VIS
			PRODUCTION DRILLING	DRILLING		SLIDE F/ 20,775'-T/ 20,784' (9' @ 9 FPH) 25-40K WOB, 140-400 DIFF, 322 GPM, TF - 120R SLIDE F/ 20,822'-T/ 20,842' (20' @ 20 FPH) 25-48K WOB, 220-430 DIFF, 322 GPM, TF - 40R SLIDE F/ 21,038'-T/ 21,068' (30' @ 15 FPH) 20-37K WOB, 140-275 DIFF, 322 GPM, TF - 40R
14:30	15:00	0.5	PRODUCTION DRILLING	LUBRICATE RIG		RIG SERVICE
15:00	18:00	3.0				ROTATE & SLIDE DRILL 6 ½" PRODUCTION LATERAL F/ 21,123'- T/ 21,409' TD (286' @ 95.3 FPH) WOB: 18-24K, GPM: 300-322, PPSI: 4,500-6,100, DIFF: 550-7800 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 90% SHALE, 10% LIMESTONE, BG GAS: 430U, CONN GAS: 2120U, MUD WEIGHT 12.2 IN/OUT W/55VIS
			PRODUCTION DRILLING	DRILLING		
18:00	00:00	6.0				CONDITION AND CIRCULATE MUD, GPM 350, RPM 75, PUMP 5 BOTTOMS UP, RACKING BACK A STAND EACH BOTTOMS UP, PUMP 4 X WEIGHTED SWEEPS, FINAL SWEEP WITH MARKER, CALCULATED STROKES TO SURFACE 11,284, SWEEP TO SURFACE @ ~12,100, CALCULATED WASHOUT 6.75%
			PRODUCTION CASING	COND MUD & CIRC		TQ AT BEGINNING OF CIRCULATION 13,085, TQ AT END OF CIRCULATION 10,030 P/U AT BEGINNING OF CIRCULATION 242, P/U AT END OF CIRCULATION 224



DAILY DRILLING REPORT

RPT DATE: 11/29/2021

RPT NUM.: 32

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC007

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/13/2021

MD/TVD: 21409 FT/11008 FT

PRESENT OPERATIONS: RUNNING LINER

ACTIVITY PLANNED: RUN LINER, CONDITION AND CIRCULATE MUD, RIG TO AND BEGIN CEMENTING LINER

JOB: DRILLING

LEASE: UL JEFF EAST 17-27-5 TB

API #: 42475381370000

ELEVATION: 2681

DFS: 28.8

24 HR FTG:

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB: 2702

DOL: 78

HRS DRLG:

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/29/2021	11/30/2021	None	LAYING DOWN BHA, P/U POWER TONGS, RUNNING CASING, ROLLING 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

RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021

TD JEFF EAST 17-27-5 TB 3H @ 18:00HRS, 11/28/2021

00:00 - 06:00 RUN 5.5" 23# P110 ICY W425 LINER T/ 5,101'

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

DOWNTIME 0.0 HRS (0 HRS TOTAL)

NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$41,605	CUM DRILL COST: \$2,977,910	CUM MUD COST: \$272,487	CUM WELL COST: \$2,977,910
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BOP

LAST BOP TEST:	11/12/21	LAST BOP DRILL:	11/15/21	NEXT BOP TEST:	12/2/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,968

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			2	9	13	16	20	11	34,000			78.00	6.10	6.80

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5373	6x15	1.035	N	18,835	21,409	2,574	73.9	24	161	34.9
8	6.75	BAKER	DD406TWH	5322137	3x16, 3x14	1.040	N	16,101	18,835	2,734	107.3	35	242	25.5

BIT NO. 9 INNER: 1 OUTER: 1 DULL: CT LOC: S 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	4.000	12.000	52	6000	322	3.10	95	13.28	311	383	18.26	1361
2	WEATHERFORD	EQ-2200	4.000	12.000	52	6000	322	3.10	95	13.28	311	383	18.26	1361

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613, 6-15's, TFA =	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5 1/2" PDM 1.83 FBH, 7/8 8.5 RPG	5.5	1.25	34.61	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Monel Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5	2.688	2.91	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Reamer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA #3

LENGTH: 7,481.19

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
20,772	88.13	250.51	10,993	-1,769.7	-9,850.7		10,008.4	4.6
20,864	88.00	251.82	10,996	-1,799.4	-9,937.7		10,099.3	1.4
20,958	87.16	251.03	11,000	-1,829.3	-10,026.7		10,192.2	1.2
21,053	87.69	251.30	11,005	-1,859.9	-10,116.6		10,286.0	0.6
21,147	89.45	252.79	11,007	-1,888.9	-10,206.0		10,379.1	2.5
21,241	90.07	251.12	11,007	-1,918.0	-10,295.3		10,472.2	1.9
21,336	89.54	251.03	11,008	-1,948.8	-10,385.2		10,566.1	0.6
21,409	89.54	251.03	11,008	-1,972.5	-10,454.2		10,638.2	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,477	9,355

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPERATOR #2	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721
10/6/2021	11:00	INTERMEDIATE	PATRICK OWENS	TRRC	OPERATOR MARY	INTERMEDIATE CASING AND CEMENT
11/29/2021	11:00	DUCTION CASING/CEM	PATRICK OWENS	TRRC	OPERATOR STEPHEN	LATERAL LINER AND CEMENT

[illegible]

TOTAL HRS	24.0					
www.welliz.com WellEz On Demand ver_11.04.2021 TW						



DAILY DRILLING REPORT

RPT DATE: 11/30/2021

RPT NUM.: 33

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H	JOB: DRILLING	RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 TB	RIG PHONE: 432-355-3112
APE #: 21DC007	API #: 42475381370000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/13/2021	DFS: 29.8	DOL: 79
MD/TVD: 21409 FT/11008 FT	24 HR FTG:	HRS DRLG:
PRESENT OPERATIONS: CIRCULATING OUT CEMENT FROM LINER TOP WITH OBM		
ACTIVITY PLANNED: STING IN, PRESSURE TEST LINER PACKER, FLIP CASING VOLUME TO WATER, TRIP OUT, RUN TIE BACK		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/30/2021	12/1/2021	None	RUNNING CASING, ROLLING CASING, TRIPPING PIPE

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
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021
TD JEFF EAST 17-27-5 TB 3H @ 18:00HRS, 11/28/2021

00:00 – 01:30 CONDITION AND CIRCULATE MUD, WAIT ON CEMENTERS TO GET RIGGED IN, BLEND SPACER

01:30 – 05:00 CLOSE MANUAL T.I.W VALVE ON CEMENT HEAD & PRESSURE UP TO 300 PSI TO VERIFY NO CEMENT OR PRESSURE LEAKAGE INTO SURFACE LINES, TEST LINES TO 8,500 PSI. PUMP 25 BBL 12.8# BARITE SPACER @ 3 BPM, FOLLOWED BY TAIL CEMENT, 960 SX (209 BBL) 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 @ 9 BPM TO PRESSURE, SLOW TO 5BPM UNTIL 80BBLs AWAY, SLOW TO 4BPM FOR CEMENT TO TURN THE CORNER, CONTINUE PUMPING DISP @ 4 BPM FINAL LIFT PSI : 4100, BUMP PLUG PRESSURE UP TO 5300PSI, HELD PSI FOR 5 MIN'S, BLEED BACK 5.5 BBLs FLOATS HOLDING, GOOD RETURNS THROUGHOUT JOB.

05:00 – 06:00 PRESSURE UP & SET LINER HANGER TOP PACKER, PULL LINER RUNNING TOOL FROM TOP OF LINER HOLDING 2000PSI, KICK PUMPS IN ONCE PRESSURE REDUCED, CONTINUE CIRCULATING BOTTOM'S UP W/ 12.4 PPG OIL BASE MUD @ 335 GPM W/ 2445 PSI

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)

NO ACCIDENTS, INCIDENTS, OR SPILLS

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$392,022	CUM DRILL COST: \$3,372,193	CUM MUD COST: \$297,871	CUM WELL COST: \$3,372,193
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BOP

LAST BOP TEST:	11/12/21	LAST BOP DRILL:	11/15/21	NEXT BOP TEST:	12/2/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,968
Liner	5.50	23.00	P110	21,393	

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	8	12	15	20	9	33,500			78.00	6.40	6.80

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	XS613	JP5373	6x15	1.035	N	18,835	21,409	2,574	73.9	24	161	34.9
8	6.75	BAKER	DD406TWH	5322137	3x16, 3x14	1.040	N	16,101	18,835	2,734	107.3	35	242	25.5

BIT NO. 9	INNER: 1	OUTER: 1	DULL: CT	LOC: S	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	52	6000	322	3.10	95	13.28	311	383	18.26	1361
2	WEATHERFORD	EQ-2200	4.000	12.000	52	6000	322	3.10	95	13.28	311	383	18.26	1361

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613, 6-15's, TFA =	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5 1/2" PDM 1.83 FBH, 7/8 8.5 RPG	5.5	1.25	34.61	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Monel Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5	2.688	2.91	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Reamer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA #3

LENGTH: 7,481.19

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
20,772	88.13	250.51	10,993		-1,769.7	-9,850.7	10,008.4	4.6
20,864	88.00	251.82	10,996		-1,799.4	-9,937.7	10,099.3	1.4
20,958	87.16	251.03	11,000		-1,829.3	-10,026.7	10,192.2	1.2
21,053	87.69	251.30	11,005		-1,859.9	-10,116.6	10,286.0	0.6
21,147	89.45	252.79	11,007		-1,888.9	-10,206.0	10,379.1	2.5
21,241	90.07	251.12	11,007		-1,918.0	-10,295.3	10,472.2	1.9
21,336	89.54	251.03	11,008		-1,948.8	-10,385.2	10,566.1	0.6
21,409	89.54	251.03	11,008		-1,972.5	-10,454.2	10,638.2	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		936	8,419

NOTIFICATIONS

[illegible]



DAILY DRILLING REPORT

RPT DATE: 12/1/2021

RPT NUM.: 34

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H	JOB: DRILLING	RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 TB	RIG PHONE: 432-355-3112
AFE #: 21DC007	API #: 42475381370000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/13/2021	DFS: 30.8	DOL: 80
MD/TVD: 21409 FT/11008 FT	24 HR FTG:	HRS DRLG:
PRESENT OPERATIONS: SPACING OUT TIE BACK STRING TO LAND MANDREL		
ACTIVITY PLANNED: SPACE OUT AND LAND CASING, TEST TIEBACK SEAL, SET AND TEST PACKOFF, NIPPLE DOWN, WALK RIG TO JEFF EAST 4H		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/1/2021	12/2/2021	None	PINCH POINTS, ROLLING CASING, THIRD PARTY EQUIPMENT

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
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021
TD JEFF EAST 17-27-5 TB 3H @ 18:00HRS, 11/28/2021

00:00 – 01:30 SPACED OUT CASING AND LANDED MANDREL. STRING WEIGHT PRIOR TO LANDING 230K, SET 60K ON TIE BACK RECEPTACLE. LANDED MANDREL WITH 170K. TESTED TIEBACK SEALS AFTER LANDED TO 2,000 PSI FOR 10 MINUTES.

01:30- 02:00 RIGGED DOWN CASING CREW

02:00 – 04:00 INSTALL PACK OFF, TEST TO 5,000 PSI, 40K OVER PULL GOOD TEST, INSTALL BACK PRESSURE VALVE INSIDE LINER & INSTALL NIGHT CAP WITH CACTUS WELLHEAD TECH.

04:00 – 04:30 NIPPLE DOWN B.O.P AND RELATED EQUIPMENT

RELEASE RIG FROM UL JEFF EAST 17-27-5 TB-3H @ 04:30 HRS, 12/2/2021

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$423,055	CUM DRILL COST: \$3,795,248	CUM MUD COST: \$305,679	CUM WELL COST: \$3,795,248
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LAST BOP TEST:	11/12/21	LAST BOP DRILL:	11/15/21	NEXT BOP TEST:	12/2/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,968
Liner	5.50	23.00	P110	21,393	

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	7.0		2	7	8	10	18	9	244,211			62.00	5.90	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
9	6.75	SMITH	X5613	JP5373	6x15	1.035	N	18,835	21,409	2,574	73.9	24	161	34.9
8	6.75	BAKER	DD406TWH	5322137	3x16, 3x14	1.040	N	16,101	18,835	2,734	107.3	35	242	25.5

BIT NO. 9 INNER: 1 OUTER: 1 DULL: CT LOC: S 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	4.000	12.000	52	6000	322	3.10	95	13.28	311	383	18.26	1361
2	WEATHERFORD	EQ-2200	4.000	12.000	52	6000	322	3.10	95	13.28	311	383	18.26	1361

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith X5613, 6-15's, TFA =	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5 1/2" PDM 1.83 FBH, 7/8 8.5 RPG	5.5	1.25	34.61	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Monel Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5	2.688	2.91	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Reamer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA #3

LENGTH: 7,481.19

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
20,772	88.13	250.51	10,993		-1,769.7	-9,850.7	10,008.4	4.6
20,864	88.00	251.82	10,996		-1,799.4	-9,937.7	10,099.3	1.4
20,958	87.16	251.03	11,000		-1,829.3	-10,026.7	10,192.2	1.2
21,053	87.69	251.30	11,005		-1,859.9	-10,116.6	10,286.0	0.6
21,147	89.45	252.79	11,007		-1,888.9	-10,206.0	10,379.1	2.5
21,241	90.07	251.12	11,007		-1,918.0	-10,295.3	10,472.2	1.9
21,336	89.54	251.03	11,008		-1,948.8	-10,385.2	10,566.1	0.6
21,409	89.54	251.03	11,008		-1,972.5	-10,454.2	10,638.2	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		750	7,669

NOTIFICATIONS

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	01:30	1.5	PRODUCTION CASING	COND MUD & CIRC		CONDITION AND CIRCULATE MUD, WAIT ON CEMENTERS TO GET RIGGED IN, BLEND SPACER
01:30	05:00	3.5				CLOSE MANUAL T.I.W VALVE ON CEMENT HEAD & PRESSURE UP TO 300 PSI TO VERIFY NO CEMENT OR PRESSURE LEAKAGE INTO SURFACE LINES, TEST LINES TO 8,500 PSI. PUMP 25 BBL 12.8# BARITE SPACER @ 3 BPM, FOLLOWED BY TAIL CEMENT, 960 SX (209 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 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 @ 9 BPM TO PRESSURE, SLOW TO 5BPM UNTIL 80BBLS AWAY, SLOW TO 4BPM FOR CEMENT TO TURN THE CORNER, CONTINUE PUMPING DISP @ 4 BPM FINAL LIFT PSI : 4100, BUMP PLUG PRESSURE UP TO 5300PSI, HELD PSI FOR 5 MIN'S, BLEED BACK 5.5 BBLS FLOATS HOLDING, GOOD RETURNS THROUGHOUT JOB.
05:00	07:30	2.5	PRODUCTION CASING	RUN CSG & CEMENT		PRESSURE UP & SET LINER HANGER TOP PACKER, PULL LINER RUNNING TOOL FROM TOP OF LINER HOLDING 2000PSI, KICK PUMPS IN ONCE PRESSURE REDUCED, CONTINUE CIRCULATING BOTTOM'S UP W/ 12.4 PPG OIL BASE MUD @ 335 GPM W/ 2445 PSI, @ 3300 STKS OPEN BYPASS AND TAKE RETURNS OVERBOARD, CONTINUE CIRCULATING 35 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.
07:30	09:00	1.5	PRODUCTION CASING	COND MUD & CIRC		DISPLACE OBM FROM HOLE WITH FRESH WATER WITH 0.05% LIQUID BIOCID. TEST LINER TOP TO 1,500 PSI AGAIN FOR 15 MINUTES, GOOD TEST.
09:00	09:30	0.5	PRODUCTION CASING	RUN CSG & CEMENT		RIG DOWN WEST TX CEMENTERS AND ALL CIRCULATING IRON.
09:30	14:00	4.5	PRODUCTION CASING	TRIPS		TRIP OUT LINER SETTING TOOL
14:00	15:30	1.5	PRODUCTION CASING	RUN CSG & CEMENT		PULL WEAR BUSHING AND RIG UP CASERS
15:30	23:30	8.0	PRODUCTION CASING	RUN CSG & CEMENT		MAKE UP TIE BACK JOINT, RUN IN HOLE WITH 5.5" 23# P110 BTC CASING FROM 0 TO 10,234'. TAKING DISPLACEMENT OVERBOARD. RUN CASING WITH TENARUS THREAD REP AND 4 STAR TORQUE TURN. AVG MAKEUP TORQUE 14,270 # TO BE SET AT: TIE BACK JOINT- 1.25' (28.45' INSIDE LINER) 239 JTS- 10,213.13' PUP JT- 1- 5.18' AND 2-20.19' (FOR SPACE OUT) LANDING JT- 24.50'



DAILY DRILLING REPORT

RPT DATE: 12/2/2021

RPT NUM.: 35

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 TB 3H	JOB: DRILLING	RIG SUPERV: CHRIS BLODGETT / JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 TB	RIG PHONE: 432-355-3112
AFE #: 21DC007	API #: 42475381370000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION: 2681	RKB: 2702
SPUD DATE: 9/13/2021	DFS: 31.0	DOL: 81
MD/TVD: 21409 FT/11008 FT	24 HR FTG:	HRS DRLG:
PRESENT OPERATIONS: RELEASE RIG FROM JEFF EAST 17-27-5 TB 3H @ 04:30 HRS, 12/2/2021		
ACTIVITY PLANNED: WALK RIG TO JEFF EAST 4H, NIPPLE UP AND TEST BOP'S, M/U CURVE BHA AND TIH		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
11/30/2021	12/1/2021	None	BUFFER ZONE, COMMUNICATION

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
RELEASE RIG FROM JEFF EAST 17-27-5 WA 1H @ 0700 HRS, 11/12/2021
TD JEFF EAST 17-27-5 TB 3H @ 18:00HRS, 11/28/2021
RELEASE RIG FROM JEFF EAST 17-27-5 TB 3H @ 04:30 HRS, 12/2/2021

LAST REPORT FOR JEFF EAST 17-27-5 TB 3H

TRANSFER 7,669 GALLONS RIG FUEL TO JEFF EAST 4H
TRANSFER 6,426 GALLONS MUD DIESEL TO JEFF EAST 4H

LAST B.O.P TEST: 11/12/2021 (DUE AGAIN BY 12/02/2021)
NO ACCIDENTS, INCIDENTS, OR SPILLS
DOWNTIME 0.0 HRS (0 HRS TOTAL)
NPT: 0 HRS (10 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,681,300	DAILY DRILL COST: \$45,081	CUM DRILL COST: \$3,840,329	CUM MUD COST: \$305,679	CUM WELL COST: \$3,840,329
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BOP

LAST BOP TEST:	11/12/21	LAST BOP DRILL:	11/15/21	NEXT BOP TEST:	12/2/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Production					
Surface	10.75	45.5	J55	5,016	4,987
Intermediate	7.63	29.7	HCL80	11,001	10,968
Liner	5.50	23.00	P110	21,393	

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	JP5373	6x15	1.035	N	18,835	21,409	2,574	73.9	24	161	34.9
8	6.75	BAKER	DD406TWH	5322137	3x16, 3x14	1.040	N	16,101	18,835	2,734	107.3	35	242	25.5

BIT NO. 9	INNER: 1	OUTER: 1	DULL: CT	LOC: S	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	52	6000	322	3.10	95	13.28	311	383	18.26	1361
2	WEATHERFORD	EQ-2200	4.000	12.000	52	6000	322	3.10	95	13.28	311	383	18.26	1361

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-6 3/4" Smith XS613, 6-15's, TFA =	6.75		1	7	Monel Collar-5" NMDC	5	2.812	29.68
2	Motor-5 1/2" PDM 1.83 FBH, 7/8 8.5 RPG	5.5	1.25	34.61	8	Monel Collar-5" NMDC	4.874	2.688	29.28
3	Stabilizer-Non mag nortrac stbl. 6 1/2 od	5.25	2.562	5.76	9	Monel Collar-5" NMDC	5	2.812	29.76
4	Monel Collar-4 3/4 NM Pony	4.812	2.688	8.64	10	X-Over-5 1/4" XO Sub	5.25	2.562	3.3
5	MWD Tool-NM UBHO Sub	5	2.688	2.91	11	Drill Pipe-1) Stand 4 1/2" HWDP	4.5	3.283	91.38
6	Monel Collar-5" NMDC	5	2.812	29.72	12	Reamer-6 13/16 Drill N Ream	5.312	2.5	8.41

DESCRIPTION: LATERAL BHA #3

LENGTH: 7,481.19

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
20,772	88.13	250.51	10,993	-1,769.7	-9,850.7		10,008.4	4.6
20,864	88.00	251.82	10,996	-1,799.4	-9,937.7		10,099.3	1.4
20,958	87.16	251.03	11,000	-1,829.3	-10,026.7		10,192.2	1.2
21,053	87.69	251.30	11,005	-1,859.9	-10,116.6		10,286.0	0.6
21,147	89.45	252.79	11,007	-1,888.9	-10,206.0		10,379.1	2.5
21,241	90.07	251.12	11,007	-1,918.0	-10,295.3		10,472.2	1.9
21,336	89.54	251.03	11,008	-1,948.8	-10,385.2		10,566.1	0.6
21,409	89.54	251.03	11,008	-1,972.5	-10,454.2		10,638.2	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel			7,669

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/12/2021	11:00	SPUD NOTICE	PATRICK OWENS	TRRC	ADREA OPERATOR #2	SPUD, SURFACE CASING AND CEMENT NOTICE JOB# 270721
10/6/2021	11:00	INTERMEDIATE	PATRICK OWENS	TRRC	OPERATOR MARY	INTERMEDIATE CASING AND CEMENT
11/29/2021	11:00	DUCTION CASING/CEM	PATRICK OWENS	TRRC	OPERATOR STEPHEN	LATERAL LINER AND CEMENT
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	24	504
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HRS)		13	168	3,528
AES DRILLING FLUIDS		MUD ENGINEER		1	24	504
TALLY ENERGY		2DD'S, 2 MWD HANDS				828
STAGE 3		2 SOLID CONTROL HANDS		2	12	468
PERCUSSION PETROLEUM		ENGINEER		1	24	60
4 STAR		CASERS		6	14	46
TENARUS		FIELD REP THREAD REP		1	12	44
www.wellEz.com				WellEz On Demand	ver. 11.04.2021 TW	

