

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/19/2021	18:45	SPUD / CASING/CMT	MICHAEL MCCARTY	TRRC	CASSADRA OPER. #14	TRRC JOB # 271559
9/28/2021	18:06	INTERMEDIATE	ELWYN EVANS	TRRC	AUDRI OP#2	
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	15	15
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HRS)		13	105	105
AES DRILLING FLUIDS		MUD ENGINEER		1	15	15
ALTITUDE		2DD'S, 2 MWD HANDS		4	30	30
STAGE 3		2 SOLID CONTROL HANDS		2	15	15
IMPAC		2 MUD LOGGERS		2	15	15
CACTUS		WELL HEAD HAND		1	4	4
MONAHANS NIPPLE UP		TESTER		1	7	7
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FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
09:00	11:00	2.0	INTERMEDIATE CASING	SKID/WALK RIG		WALK RIG TO UL JEFF EAST D 17-27-5 WB 2H
11:00	13:00	2.0	INTERMEDIATE CASING	NIPPLE UP B.O.P.		NIPPLE UP BOP'S, RIG UP MUD LINES AND FLOW LINE, INSTALL POLLUTION PAN, INSTALL FILL UP HOSE, INSTALL MOUSE HOLE, INSTALL STAND PIPE HARD LINE, MOVE AND INSTALL CHOKE LINE TORQUE ALL, FOLD OVER CATWALK & INSTALL.
13:00	14:30	1.5	INTERMEDIATE CASING	TEST B.O.P.		TEST BOPS AS FOLLOWS, CACTUS SPEED BOWL CONNECTION, CHOKES LINE, 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
14:30	15:00	0.5	INTERMEDIATE CASING	OTHER		INSTALL WEAR BUSHING
15:00	16:30	1.5	INTERMEDIATE CASING	PU BHA		P/U 6 3/4" CURVE BHA AS FOLLOWS: 6 3/4 ULTERRA CF611 TFA: 1.03 (6 X 15'S) , SN-54468 , 5" ALTITUDE SUPERHAWK MOTOR 2.0" FBH 6/7 lb 10.0 stg .87 RPG, MAX TQ 6,600, MAX DIFF 2250, BIT TO BEND 4.46, KICK PAD OD 5.25", 1-5.25"UBHO, 5", 2-5"NMDG, 1-5.25" XO, TEST MWD @ 140 GPM W/ 750 PSI (GOOD TEST) **SAFETY MEETING AND JSA WITH DIRECTIONAL, UNIT PERSONAL AND COMP. REP OVER PICKING UP BHA AND POTENTIAL HAZARDS.
16:30	18:30	2.0	INTERMEDIATE CASING	TRIPS		TRIP IN HOLE F/ 118' - T/ 4,954' TOP OF DV TOOL, TAKING RETURNS OVERBOARD TO RESERVE PIT, FILLING PIPE EVERY 25 STANDS WITH FRESHWATER, REMOVE TRIP NIPPLE AND INSTALL ROTATING HEAD. **SAFETY MEETING AND JSA REVIEW FOR TRIPPING IN HOLE WITH ALL UNIT PERSONAL FOCUSING ON PINCH POINTS AND ELIMINATING THE POTENTIAL FOR EXPOSURES.
18:30	19:00	0.5	INTERMEDIATE CASING	OTHER		TEST CASING PRIOR TO DRILLING OUT DV TOOL TO 1500 PSI FOR 10 MIN'S
19:00	20:00	1.0	INTERMEDIATE CASING	DRILLING		DRILL OUT DV TOOL @ 4,954' AND CONTINGENCY COLLAR @ 5,081', 200 GPM, 20 RPM, 3-5 WOB, 500 PSI, 100 DIFF, 5,000 TQ, TAKING RETURNS TO RESERVE PIT.
20:00	20:30	0.5	INTERMEDIATE CASING	RIG SERVICE		SERVICE RIG, TROUBLESHOOT PRESSURE LOSS AT SURFACE
20:30	21:30	1.0	INTERMEDIATE CASING	REPAIR RIG	RIG REPAIR	TROUBLESHOOT PRESSURE LOSS AT SURFACE. CHANGE OUT 4" VALVE ON #1 MUD PUMP
21:30	22:30	1.0	INTERMEDIATE CASING	OTHER		TEST CASING TO 1,500 PSI FOR 30 MINUTES AT 5,081'
22:30	00:00	1.5	INTERMEDIATE CASING	TRIPS		TRIP IN HOLE F/ 5,081' - T/ 8,200' TAKING RETURNS OVERBOARD TO RESERVE PIT, FILLING PIPE EVERY 25 STANDS WITH FRESHWATER



DAILY DRILLING REPORT

RPT DATE: 12/14/2021

RPT NUM.: 13

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WB 2H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY/ JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 WB	RIG PHONE: 432-355-3112
APE #: 21DC006	API #: 42475381380000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION:	RKB:
SPUD DATE: 9/20/2021	DFS: 10.8	DOL: 86
MD/TVD: 11357 FT/11326 FT	24 HR FTG: 295	HRS DRLG: 13
PRESENT OPERATIONS: TIH WITH CURVE BHA #2 AT 5,400'		
ACTIVITY PLANNED: TIH, DRILL CURVE, TOOH TO PICK UP LATERAL BHA		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/14/2021	12/15/2021	None	TRIPPING PIPE, HAND PLACEMENT, TRIP HAZARDS, COMPLACENCY
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			
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 09:00 HRS, 12/13/2021			
00:00 – 02:30 TIH WITH CURVE BHA F/ 5,400' - T/ 11,357' BOTTOM. MONITORING DISP T/F TRIP TANK, CORRECT DISPLACEMENT.			
0230 – 0600 : SLIDE DRILL 6 ¾" CURVE F/ 11,357' – T/ 11,425' WOB: 20-45K, GPM: 275, PPSI: 3600, TF: HS, TAKING RETURNS ON FLOW LINE W/O RESTRICTION, MW: 13.1 IN/OUT			
00:00 – 02:30 TIH WITH CURVE BHA F/ 5,400' - T/ 11,357' BOTTOM. MONITORING DISP T/F TRIP TANK, CORRECT DISPLACEMENT.			
0230 – 0600 : SLIDE DRILL 6 ¾" CURVE F/ 11,357' – T/ 11,425' WOB: 20-45K, GPM: 275, PPSI: 3600, TF: HS, TAKING RETURNS ON FLOW LINE W/O RESTRICTION, MW: 13.1 IN/OUT			
LAST B.O.P TEST: 12/02/2021 (DUE AGAIN BY 12/23/2021)			
NO ACCIDENTS, INCIDENTS, OR SPILLS			
DOWNTIME 0 HRS (1 HRS TOTAL)			
NPT: 0 HRS (10 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,718,050	DAILY DRILL COST: \$97,419	CUM DRILL COST: \$1,664,388	CUM MUD COST: \$70,394	CUM WELL COST: \$1,664,388
BOP				
LAST BOP TEST:	12/2/21	LAST BOP DRILL:	12/22/21	NEXT BOP TEST:

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J-55	4,993	4,970
Intermediate	7.63	29.7	HCL-80	11,042	

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	13.0	72.0	9.0		3	8	13	15	25	9	219,351			57.80	7.20	

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
5	6.75	BAKER HUGHES	K5M323	5325023	2x22, 1x15	0.920	N	0						
4	6.75	SECURITY	GTD63MU	13601052	3x16, 3x9	0.780	N	11,062	11,357	295	10.5	30	261	28.1

BIT NO. 3	INNER: 4	OUTER: 2	DULL: BT	LOC: I	SEAL: X	GAUGE: 0	OTHER: CT	RP: TD/CSG
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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	4.000	12.000	48	3800	150	.00274	95					
2	WEATHERFORD	EQ-2200	4.000	12.000	48	3800	150	.00274	95					

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-BAKER HUGHES	6.75		1	7	Drill Pipe-10 Stands 4 1/2" DP	4.5	2.5	941.88
2	Motor-6/7 10.0 Fixed 2.25 w/ SS	5		31.4	8	Drill Pipe-20 Stands 4 1/2" HWDP	4.5	3.283	1821.88
3	Sub-UBHO	5.25		3.25					
4	Drill Collar-NMDC	5.22	2.8	29.26					
5	Drill Collar-NMDC	5.04	2.77	30.32					
6	X-Over-Cross Over	5.26	2.3	3.75					

DESCRIPTION: CURVE BHA #2	BHA WT. AIR:	BHA WT. MUD: 210,000	HRS. ON JARS:
LENGTH: 2,862.74	P.U. WT.: 240,000	S.O. WT.: 195,000	TORQUE: 10,000
ROT. WT.: 210,000			

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
9,421	2.70	185.98	1	354.1	-160.1		9,397.4	90.2
9,515	3.53	185.15	1	349.0	-160.5		9,491.3	91.6
9,608	5.02	190.46	2	342.1	-161.5		9,584.0	93.9
9,701	4.93	188.30	0	334.2	-162.9		9,676.7	96.7
9,793	4.25	184.32	1	326.9	-163.7		9,768.4	98.9
9,885	4.06	174.78	1	320.2	-163.6		9,860.2	100.1
9,978	2.27	171.51	2	315.1	-163.1		9,953.0	100.5
10,348	2.81	211.31	0	301.7	-170.3		10,322.7	110.1

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,301	1,687	12,537

NOTIFICATIONS

[illegible]

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	01:00	1.0	INTERMEDIATE CASING	TRIPS		TRIP IN HOLE F/ 8,200' - T/ 10,956' FLOAT COLLAR TAKING RETURNS OVERBOARD TO RESERVE PIT, FILLING PIPE EVERY 25 STANDS WITH FRESHWATER
01:00	02:00	1.0	INTERMEDIATE CASING	DRILLING		DRILL FLOAT COLLAR AT 10,956' - T/ 10,980'
02:00	03:30	1.5	INTERMEDIATE CASING	CUT OFF DRILL LINE		INSTALL TIW AND CIRCULATING SWEDGE. SLIP AND CUT DRILL LINE WHILE DISPLACING WELL WITH 13.2 PPG OIL BASE MUD, ISSUES WITH SLIP AND CUT DUE TO REMOTE SPOOLER NOT WORKING CORRECTLY, MANUALLY SPOOLING DRILL LINE FROM DRILLERS CABIN WHILE TROUBLESHOOTING REMOTE AND REPAIRING.
03:30	05:00	1.5	INTERMEDIATE CASING	DRILLING		INSTALL TIW AND CIRCULATING SWEDGE. SLIP AND CUT DRILL LINE WHILE DISPLACING WELL WITH 13.2 PPG OIL BASE MUD, ISSUES WITH SLIP AND CUT DUE TO REMOTE SPOOLER NOT WORKING CORRECTLY, MANUALLY SPOOLING DRILL LINE FROM DRILLERS CABIN WHILE TROUBLESHOOTING REMOTE AND REPAIRING.
05:00	05:30	0.5	INTERMEDIATE CASING	OTHER		PERFORM FIT TO 14.2 PPG EQUIVLENT. 13.0 PPG TEST MUD WEIGHT. 11,036' TVD, 689 PSI. FIT WAS SUCCESSFUL
05:30	07:00	1.5	PRODUCTION DRILLING	DRILLING		ROTATE DRILL TO KOP F/ 11,062' - T/ 11,129' (67' @ 44.6 FPH) WOB: 20-28K, GPM: 300, RPM: 30, PPSI: 3,800, DIFF: 500-825 PSI, TQ: 6,000-10,000. TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 30% LIMESTONE/ 70% SHALE , BG GAS: 225U, BU GAS: 225 W/ NO FLARE. MUD WEIGHT 13 IN/OUT W/ 78 VIS, NO LOSSES. DRILLED AWAY FROM CASING UNTIL MWD HAD NO MAGNETIC INTERFERENCE.
07:00	16:00	9.0	PRODUCTION DRILLING	DRILLING		SLIDE DRILL CURVE F/ 11,129' - T/ 11,357' (228' @ 25.3 FPH) WOB: 18-35K, GPM: 200-329, PPSI: 2,300-4,200, DIFF: 270-710 PSI, TAKING RETURNS UN RESTRICTED TO FLOW LINE WITH VENT LINE, LITHOLOGY: 30% LIMESTONE/ 70% SHALE- 100% SHALE , BG GAS: 225U, BU GAS: 225 W/ NO FLARE. MUD WEIGHT 13 IN/OUT W/ 74 VIS, NO LOSSES. UNABLE TO OBTAIN SUFFICIENT BUILD RATES NEED 14.5'S TO LAND CURVE
16:00	16:30	0.5	PRODUCTION DRILLING	COND MUD & CIRC		FLOW CHECK WELL, PUMP SLUG
16:30	21:00	4.5	PRODUCTION DRILLING	TRIPS		TOOH F/ 11,357' - 98' DIRECTIONAL BHA. MONITORED WELL AT TRIP TANK, WELL TOOK PROPER DISPLACEMENT ** PISM TRIPPING PIPE. HAND PLACEMENT. SLIP AND TRIP HAZARDS.



DAILY DRILLING REPORT

RPT DATE: 12/15/2021

RPT NUM.: 14

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WB 2H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY/ JOSH GILMORE
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 WB	RIG PHONE: 432-355-3112
AFE #: 21DC006	API #: 42475381380000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION:	RKB:
SPUD DATE: 9/20/2021	DFS: 11.9	DOL: 87
MD/TVD: 12062 FT/11694 FT	24 HR FTG: 705	HRS DRLG: 15.5
PRESENT OPERATIONS: P/U 6 3/4" LATERAL BHA		
ACTIVITY PLANNED: TRIP IN HOLE / DRILL PRODUCTION LATERAL F/ 12,059'		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/15/2021	12/16/2021	None	TRIPPING PIPE, HAND PLACEMENT, RUNNING GENIE BOOM
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 RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 09:00 HRS, 12/13/2021 00:00 – 00:30 FINISH LAYING DOWN 6 3/4" CURVE BHA #2 AS FOLLOWS: 6 3/4 BAKER KYMERA TFA: 0.92 (2X22, 1X15) , SN-5325023 , 5" ALTITUDE MOTOR 2.25" FBH 6/7 lb 10.0 stg .87 RPG, MAX TQ 6,600, MAX DIFF 2250, BIT TO BEND 4.39, KICK PAD OD 5.15", 1'-5.25"UBHO, 5" , 2'-5"NMDC, MOTOR DRAINED GOOD, NO SLACK IN BIT BOX. NO VISUAL DAMAGE. 00:30 – 01:30 P/U BHA #6 RSS LATERAL BHA AS FOLLOWS: 6 3/4 BAKER DD406VTH TFA 0.57 (3X9, 3X13), SN-5324988, 5.25" ORBIT 475, 5" UBHO, 5.25" NMDC, 6 5/8" STAB, 5.25" NMPC, 5.25" TOMAX TOOL, 5" FILTER SUB, 5" ALTITUDE 6/7 8.85TG, 0.68RPG, MAX TQ, 7979, MAX DIFF 2240, WITH 6 5/8" NEAR BOX STAB, TEST MWD 155GPM, 980PSI TEST GOOD 01:30 – 03:00 TIH F/129' T/ 3,130' INSTALL ROTATING HEAD 03:00 – 03:30 FILL PIPE, TEST MWD AT 200GPM, WEAK PULSES, RECYCLE TWICE, GO TO 250GPM, STILL WEAK, INCREASE PUMP TO 275 GPM, NO CHANGE TRIP FOR MWD ISSUES 03:30- 05:00 TOOH TO BHA 05:00 – 06:00 PULL MWD, TRANSMITTER FAILURE, SWAP TRANSMITTER,TRIM FINS, RE-INSTALL MWD LAST B.O.P TEST: 12/02/2021 (DUE AGAIN BY 12/23/2021) NO ACCIDENTS, INCIDENTS, OR SPILLS DOWNTIME 0 HRS (1 HRS TOTAL) NPT: 0 HRS (10 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,718,050	DAILY DRILL COST: \$49,809	CUM DRILL COST: \$1,739,303	CUM MUD COST: \$78,435	CUM WELL COST: \$1,739,303
BOP				
LAST BOP TEST:	12/2/21	LAST BOP DRILL:	NEXT BOP TEST:	12/22/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J-55	4,993	4,970
Intermediate	7.63	29.7	HCL-80	11,042	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	13.0	69.0			3	8	12	15	23	12	222,581			76.00	7.00	8.00

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
5	6.75	BAKER HUGHES	K5M323	5325023	2x22, 1x15	0.920	N	11,357	12,062	705	14.6	55	284	48.4
4	6.75	SECURITY	GTD63MU	13601052	3x16, 3x9	0.780	N	11,062	11,357	295	10.5	30	261	28.1

BIT NO. 5	INNER: 1	OUTER: 3	DULL: BT	LOC: S	SEAL: E	GAUGE: I	OTHER: LT	RP: BHA
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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	105	5180	326	.00274	95	13.84	315	388	26.08	1237
2	WEATHERFORD	EQ-2200	4.000	12.000		3800	0	.00274	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-BAKER HUGHES	6.75		1	7	Drill Pipe-10 Stands 4 1/2" DP	4.5	2.5	941.88
2	Motor-6/7 10.0 Fixed 2.25 w/ SS	5		31.4	8	Drill Pipe-20 Stands 4 1/2" HWDP	4.5	3.283	1821.88
3	Sub-UBHO	5.25		3.25					
4	Drill Collar-NMDC	5.22	2.8	29.26					
5	Drill Collar-NMDC	5.04	2.77	30.32					
6	X-Over-Cross Over	5.26	2.3	3.75					

DESCRIPTION: CURVE BHA #2	BHA WT. AIR:	BHA WT. MUD:	HRS. ON JARS:
LENGTH: 2,862.74			
ROT. WT.: 205,000	P.U. WT.: 245,000	S.O. WT.: 180,000	TORQUE: 12,500

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
11,347	15.29	229.49	11,318	252.3	-212.2	133.5	4.2	
11,441	23.26	227.65	11,406	231.7	-235.4	161.5	8.5	
11,534	26.43	237.42	11,491	208.1	-266.2	197.6	5.7	
11,628	41.55	233.58	11,568	178.1	-309.1	247.3	16.2	
11,723	54.91	234.48	11,631	136.7	-366.4	313.8	14.1	
11,817	70.17	237.30	11,675	90.1	-435.3	393.0	16.5	
11,911	87.68	240.56	11,693	42.8	-514.0	481.8	18.9	
12,006	90.18	251.81	11,694	4.5	-600.8	575.7	12.1	

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,071	10,466

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/19/2021	18:45	SPUD / CASING/CMT	MICHAEL MCCARTY	TRRC	CASSADRA OPER. #14	TRRC JOB # 271559
9/28/2021	18:06	INTERMEDIATE	ELWYN EVANS	TRRC	AUDRI OP#2	
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	24	63
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HR)		13	168	441
AES DRILLING FLUIDS		MUD ENGINEER		1	24	63
ALTITUDE		2DD'S, 2 MWD HANDS		4	12	54
STAGE 3		2 SOLID CONTROL HANDS		2	24	63
IMPAC		2 MUD LOGGERS		2	24	63

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DAILY DRILLING REPORT

RPT DATE: 12/16/2021

RPT NUM.: 15

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WB 2H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC006
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/20/2021
MD/TVD: 12168 FT/11691 FT
PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE AHEAD
ACTIVITY PLANNED: DRILL 6.75" LATERAL AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST 17-27-5 WB
API #: 42475381380000
ELEVATION:
DFS: 12.9
24 HR FTG: 106

RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB:
DOL: 88
HRS DRLG: 0.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/16/2021	12/17/2021	Injury	TRIPPING PIPE, HAND PLACEMENT, TRIPPING IN HOLE / GENERAL HOUSEKEEPING / MIXING CHEMICALS.

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
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 09:00 HRS, 12/13/2021

00:00-06:00 - ROTATE DRILL 6 3/4" PRODUCTION LATERAL WITH RSS F/ 12,168' - T/ 12,900' (732' @ 122 FPH) WOB: 32K, GPM: 300, PPSI: 5,400, RPM'S: 80, TORQUE ON: 12490 FT/LBS, OFF: 5600 FT/LBS, CURRENT DOWNLINK IN RSS: XX HIA WITH XX BUMPS L/R, TAKING RETURNS UN RESTRICTED DOWN FLOWLINE WITH VENTLINE OPEN, B/G UNITS: 500, B/U UNITS: 2670, LITHOLOGY: 60% SHALE/ 40% LIMESTONE

LAST B.O.P TEST: 12/02/2021 (DUE AGAIN BY 12/23/2021)
NIGHT MWD OPERATOR LACERATED HAND, NO SPILLS
DOWNTIME 0 HRS (1 HRS TOTAL)
NPT: 20.5 HRS (30.5 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,718,050 DAILY DRILL COST: \$103,388 CUM DRILL COST: \$1,842,691 CUM MUD COST: \$80,250 CUM WELL COST: \$1,842,691

BOP

LAST BOP TEST: 12/2/21 LAST BOP DRILL: NEXT BOP TEST: 12/22/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J-55	4,993	4,970
Intermediate	7.63	29.7	HCL-80	11,042	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	13.2	77.0			3	8	12	14	25	11	225,848				7.10	8.40

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	BAKER	DD406VTH	5324988	3x13, 3x9	0.575	N	12,062	12,168	106	0.5	32	204	212.0
5	6.75	BAKER HUGHES	K5M323	5325023	2x22, 1x15	0.920	N	11,357	12,062	705	14.6	55	284	48.4

BIT NO. 5 INNER: 1 OUTER: 3 DULL: BT LOC: S SEAL: E GAUGE: I OTHER: LT 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	97	5540	300	.00274	95	13.82	290.4	357	51.83	1237
2	WEATHERFORD	EQ-2200	4.000	12.000		3800	0	.00274	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Baker Hughes DRILL BIT	6.75		1	7	Steerable Assembly-TOMAX	5.25	2.625	18.24
2	Steerable Assembly-Orbit 475	5.25		14.04	8	Sub-Filter Sub	5	2.75	5.41
3	Sub-UBHO	5	2.75	3.03	9	Motor-6/7_8.8 Fixed 0.00_Pin X Pin	5		34.81
4	Monel Collar-NMDC	5.25	2.83	29.19	10	X-Over-X-Over CET43 x XT39	5.25	2.125	3.83
5	Stabilizer-6 5/8 Stab	5	2.75	4.7					
6	Monel Collar-NMPC	5.25	2.75	14.84					

DESCRIPTION: 6 3/4" PRODUCTION RSS BHA #2
LENGTH: 129.09
ROT. WT.: 188,000

BHA WT. AIR:
P.U. WT.: 216,000

BHA WT. MUD:
S.O. WT.: 165,000

HRS. ON JARS:
TORQUE: 13,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
11,441	23.26	227.65	11,406	231.7	-235.4		161.5	8.5
11,534	26.43	237.42	11,491	208.1	-266.2		197.6	5.7
11,628	41.55	233.58	11,568	178.1	-309.1		247.3	16.2
11,723	54.91	234.48	11,631	136.7	-366.4		313.8	14.1
11,817	70.17	237.30	11,675	90.1	-435.3		393.0	16.5
11,911	87.68	240.56	11,693	42.8	-514.0		481.8	18.9
12,006	90.18	251.81	11,694	4.5	-600.8		575.7	12.1
12,112	91.58	254.00	11,693	-26.7	-702.1		681.7	2.5

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,111	9,355

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/19/2021	18:45	SPUD / CASING/CMT	MICHAEL MCCARTY	TRRC	CASSADRA OPER. #14	TRRC JOB # 271559
9/28/2021	18:06	INTERMEDIATE	ELWYN EVANS	TRRC	AUDRI OP#2	
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	24	87
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HRS)		13	168	609
AES DRILLING FLUIDS		MUD ENGINEER		1	24	87
ALTITUDE		2DD'S, 2 MWD HANDS		4	12	66
STAGE 3		2 SOLID CONTROL HANDS		2	24	87
IMPAC		2 MUD LOGGERS		2	24	87
www.well-ez.com WellEz On Demand ver. 11.04.2021 TW						

TIME BREAKDOWN							
FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS	
00:00	00:30	0.5	PRODUCTION DRILLING	DIR WORK		FINISH LAYING DOWN 6 3/4" CURVE BHA #2 AS FOLLOWS: 6 3/4 BAKER KYMERA TFA: 0.92 (2X22, 1X15) , SN-5325023 , 5" ALTITUDE MOTOR 2.25" FBH 6/7 lb 10.0 stg .87 RPG, MAX TQ 6,600, MAX DIFF 2250, BIT TO BEND 4.39, KICK PAD OD 5.15", 1-5.25"UBHO, 5" , 2-5"NMDC, MOTOR DRAINED GOOD, NO SLACK IN BIT BOX. NO VISUAL DAMAGE.	
00:30	01:30	1.0				P/U BHA #6 RSS LATERAL BHA AS FOLLOWS: 6 3/4 BAKER DD406VTH TFA 0.57 (3X9, 3X13), SN-5324988, 5.25" ORBIT 475, 5" UBHO, 5.25" NMDC, 6 5/8" STAB, 5.25" NMPC, 5.25" TOMAX TOOL, 5" FILTER SUB, 5" ALTITUDE 6/7 8.8STG, 0.68RPG, MAX TQ, 7979, MAX DIFF 2240, WITH 6 5/8" NEAR BOX STAB, TEST MWD 155GPM, 980PSI TEST GOOD	
01:30	03:00	1.5	PRODUCTION DRILLING	TRIPS		TIH F/129' T/ 3,130' INSTALL ROTATING HEAD	
03:00	03:30	0.5	PRODUCTION DRILLING	DIR WORK	EQUIPMENT FAILURE (NON RIG)	FILL PIPE, TEST MWD AT 200GPM, WEAK PULSES, RECYCLE TWICE, GO TO 250GPM, STILL WEAK, INCREASE PUMP TO 275 GPM, NO CHANGE TRIP FOR MWD ISSUES	
03:30	05:30	2.0			EQUIPMENT FAILURE (NON RIG)	TOOH F/1,964' - T/ 129' BHA MONITORING DISP T/F TRIP TANK WELL TAKING CORRECT DISPLACEMENT.	
05:30	13:30	8.0	PRODUCTION DRILLING	DIR WORK		PULL MWD & INSPECT/TROUBLESHOOT WEAK PULSES, FOUND THAT TRANSMITTER WAS STUCK IN OPEN POSITION FROM SHOP BUILT INTERCHANGEABLE SUB, REPLACE AND REPAIR, RE INSTALL MWD & ATTEMPT TO TEST MWD @ VARIOUS PARAMETERS WITHOUT SUCCESS, TROUBLESHOOT MWD LOW PULSE WITH GORDON MANUFACTURER TEAM, CHANGE OUT SHOCKMEISER/UBHO SUB AND RE INSTALL MWD NO SUCCESS, TROUBLESHOOT PUMPS (OK), CHANGE OUT STAND PIPE TRANSDUCER & RUN TEMP NEW COM'S CABLE, NO SUCCESS WITH VARIOUS PARAMETERS. ORDERED OUT NEW MWD TOOL, TOOL ON LOCATION @ 1330 , BEGIN DOWNLOADING AND DOWN LINKING TOOL WITH GORDON MWD TECH SUPPORT TO SUCCESSFULLY OVERCOME ERRORS AND ENCRYPTION FILES WITHIN SOFTWARE. ROLL TEST AND VERIFY CORRECT DATA.	
13:30	14:00	0.5			PRODUCTION DRILLING	DIR WORK	EQUIPMENT FAILURE (NON RIG)
14:00	20:30	6.5	PRODUCTION DRILLING	TRIPS		T.I.H F/ 138' - T/ 11,120' MONITORING DISP @ SYSTEM,	
20:30	22:00	1.5	PRODUCTION DRILLING	OTHER		EQUIPMENT FAILURE (NON RIG)	REMOVE TRIP NIPPLE, FILL PIPE AND INSTALL ROTATING HEAD, ESTABLISH CIRCULATION @ 300 GPM W/ 4140 PSI, WASH DOWN F/11,120' T/ 11,398', W/ 300 GPM, ROT 50, RUN ON ELEVATORS TO 11,884' WASH DOWN TO 12,000'
22:00	23:30	1.5				PRODUCTION DRILLING	DIR WORK
23:30	00:00	0.5	PRODUCTION DRILLING	DRILLING		ROTATE DRILL 6 3/4" PRODUCTION LATERAL WITH RSS F/ 12,062' -T/ 12,168' (106" @ 53 FPH) WOB: 30K, GPM: 300, PPSI: 5460, RPM'S: 80, TORQUE ON: 12630 FT/LBS, OFF: 8220 FT/LBS, CURRENT DOWNLINK IN RSS: XX HIA WITH XX BUMPS L/R, TAKING RETURNS UN RESTRICTED DOWN FLOWLINE WITH VENTLINE OPEN, B/G UNITS: 285. B/U UNITS: 2860. LITHOLOGY: 70% SHALE/ 30% LIMESTONE	



DAILY DRILLING REPORT

RPT DATE: 12/16/2021

RPT NUM.: 15

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WB 2H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC006
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/20/2021
MD/TVD: 12168 FT/11691 FT
PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE AHEAD
ACTIVITY PLANNED: DRILL 6.75" LATERAL AHEAD

JOB: DRILLING
LEASE: UL JEFF EAST 17-27-5 WB
API #: 42475381380000
ELEVATION:
DFS: 12.9
24 HR FTG: 106

RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB:
DOL: 88
HRS DRLG: 0.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/16/2021	12/17/2021	Injury	TRIPPING PIPE, HAND PLACEMENT, TRIPPING IN HOLE / GENERAL HOUSEKEEPING / MIXING CHEMICALS.

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
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RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 09:00 HRS, 12/13/2021

00:00-06:00 - ROTATE DRILL 6 3/4" PRODUCTION LATERAL WITH RSS F/ 12,168' - T/ 12,900' (732' @ 122 FPH) WOB: 32K, GPM: 300, PPSI: 5,400, RPM'S: 80, TORQUE ON: 12490 FT/LBS, OFF: 5600 FT/LBS, CURRENT DOWNLINK IN RSS: 90.5 HIA WITH 4 BUMPS R, TAKING RETURNS UN RESTRICTED DOWN FLOW LINE WITH VENT LINE OPEN, B/G UNITS: 500, B/U UNITS: 2670, LITHOLOGY: 60% SHALE/ 40% LIMESTONE

LAST B.O.P TEST: 12/02/2021 (DUE AGAIN BY 12/23/2021)
NIGHT MWD OPERATOR LACERATED HAND, NO SPILLS
DOWNTIME 0 HRS (1 HRS TOTAL)
NPT: 20.5 HRS (30.5 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,718,050	DAILY DRILL COST: \$103,388	CUM DRILL COST: \$1,842,691	CUM MUD COST: \$80,250	CUM WELL COST: \$1,842,691
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BOP

LAST BOP TEST:	12/2/21	LAST BOP DRILL:	NEXT BOP TEST:	12/22/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J-55	4,993	4,970
Intermediate	7.63	29.7	HCL-80	11,042	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	13.2	77.0			3	8	12	14	25	11	225,848				7.10	8.40

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	BAKER	DD406VTH	5324988	3x13, 3x9	0.575	N	12,062	12,168	106	0.5	32	204	212.0
5	6.75	BAKER HUGHES	K5M323	5325023	2x22, 1x15	0.920	N	11,357	12,062	705	14.6	55	284	48.4

BIT NO. 5	INNER: 1	OUTER: 3	DULL: BT	LOC: S	SEAL: E	GAUGE: I	OTHER: LT	RP: BHA
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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	97	5540	300	.00274	95	13.82	290.4	357	51.83	1237
2	WEATHERFORD	EQ-2200	4.000	12.000		3800	0	.00274	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Baker Hughes DRILL BIT	6.75		1	7	Steerable Assembly-TOMAX	5.25	2.625	18.24
2	Steerable Assembly-Orbit 475	5.25		14.04	8	Sub-Filter Sub	5	2.75	5.41
3	Sub-UBHO	5	2.75	3.03	9	Motor-6/7_8.8 Fixed 0.00_Pin X Pin	5		34.81
4	Monel Collar-NMDC	5.25	2.83	29.19	10	X-Over-X-Over CET43 x XT39	5.25	2.125	3.83
5	Stabilizer-6 5/8 Stab	5	2.75	4.7					
6	Monel Collar-NMPC	5.25	2.75	14.84					

DESCRIPTION: 6 3/4" PRODUCTION RSS BHA #2
LENGTH: 129.09
ROT. WT.: 188,000

BHA WT. AIR:
P.U. WT.: 216,000

BHA WT. MUD:
S.O. WT.: 165,000

HRS. ON JARS:
TORQUE: 13,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
11,441	23.26	227.65	11,406	231.7	-235.4		161.5	8.5
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11,723	54.91	234.48	11,631	136.7	-366.4		313.8	14.1
11,817	70.17	237.30	11,675	90.1	-435.3		393.0	16.5
11,911	87.68	240.56	11,693	42.8	-514.0		481.8	18.9
12,006	90.18	251.81	11,694	4.5	-600.8		575.7	12.1
12,112	91.58	254.00	11,693	-26.7	-702.1		681.7	2.5

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,111	9,355

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/19/2021	18:45	SPUD / CASING/CMT	MICHAEL MCCARTY	TRRC	CASSADRA OPER. #14	TRRC JOB # 271559
9/28/2021	18:06	INTERMEDIATE	ELWYN EVANS	TRRC	AUDRI OP#2	
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	24	87
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HR)		13	168	609
AES DRILLING FLUIDS		MUD ENGINEER		1	24	87
ALTITUDE		2DD'S, 2 MWD HANDS		4	12	66
STAGE 3		2 SOLID CONTROL HANDS		2	24	87
IMPAC		2 MUD LOGGERS		2	24	87
www.wellez.com WellEz On Demand ver. 11.04.2021 TW						

TIME BREAKDOWN						
FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	00:30	0.5	PRODUCTION DRILLING	DIR WORK		FINISH LAYING DOWN 6 3/4" CURVE BHA #2 AS FOLLOWS: 6 3/4 BAKER KYMERA TFA: 0.92 (2X22, 1X15) , SN-5325023 , 5" ALTITUDE MOTOR 2.25" FBH 6/7 lb 10.0 stg .87 RPG, MAX TQ 6,600, MAX DIFF 2250, BIT TO BEND 4.39, KICK PAD OD 5.15", 1-5.25"UBHO, 5" , 2-5"NMDC, MOTOR DRAINED GOOD, NO SLACK IN BIT BOX. NO VISUAL DAMAGE.
00:30	01:30	1.0				P/U BHA #6 RSS LATERAL BHA AS FOLLOWS: 6 3/4 BAKER DD406VTH TFA 0.57 (3X9, 3X13), SN-5324988, 5.25" ORBIT 475, 5" UBHO, 5.25" NMDC, 6 5/8" STAB, 5.25" NMPC, 5.25" TOMAX TOOL, 5" FILTER SUB, 5" ALTITUDE 6/7 8.8STG, 0.68RPG, MAX TQ, 7979, MAX DIFF 2240, WITH 6 5/8" NEAR BOX STAB, TEST MWD 155GPM, 980PSI TEST GOOD
01:30	03:00	1.5			PRODUCTION DRILLING	TRIPS
03:00	03:30	0.5	PRODUCTION DRILLING	DIR WORK	EQUIPMENT FAILURE (NON RIG)	FILL PIPE, TEST MWD AT 200GPM, WEAK PULSES, RECYCLE TWICE, GO TO 250GPM, STILL WEAK, INCREASE PUMP TO 275 GPM, NO CHANGE TRIP FOR MWD ISSUES
03:30	05:30	2.0	PRODUCTION DRILLING	TRIPS	EQUIPMENT FAILURE (NON RIG)	TOOH F/1,964' - T/ 129' BHA MONITORING DISP T/F TRIP TANK WELL TAKING CORRECT DISPLACEMENT.
05:30	13:30	8.0	PRODUCTION DRILLING	DIR WORK	EQUIPMENT FAILURE (NON RIG)	PULL MWD & INSPECT/TROUBLESHOOT WEAK PULSES, FOUND THAT TRANSMITTER WAS STUCK IN OPEN POSITION FROM SHOP BUILT INTERCHANGEABLE SUB, REPLACE AND REPAIR, RE INSTALL MWD & ATTEMPT TO TEST MWD @ VARIOUS PARAMETERS WITHOUT SUCCESS, TROUBLESHOOT MWD LOW PULSE WITH GORDON MANUFACTURER TEAM, CHANGE OUT SHOCKMEISER/UBHO SUB AND RE INSTALL MWD NO SUCCESS, TROUBLESHOOT PUMPS (OK), CHANGE OUT STAND PIPE TRANSDUCER & RUN TEMP NEW COM'S CABLE, NO SUCCESS WITH VARIOUS PARAMETERS. ORDERED OUT NEW MWD TOOL, TOOL ON LOCATION @ 1330 , BEGIN DOWNLOADING AND DOWN LINKING TOOL WITH GORDON MWD TECH SUPPORT TO SUCCESSFULLY OVERCOME ERRORS AND ENCRYPTION FILES WITHIN SOFTWARE. ROLL TEST AND VERIFY CORRECT DATA.
13:30	14:00	0.5	PRODUCTION DRILLING	DIR WORK	EQUIPMENT FAILURE (NON RIG)	INSTALL NEW MWD TOOL AND TEST TOOL @ 180 GPM W/ 980 PSI (GOOD TEST)
14:00	20:30	6.5	PRODUCTION DRILLING	TRIPS	EQUIPMENT FAILURE (NON RIG)	T.I.H F/ 138' - T/ 11,120' MONITORING DISP @ SYSTEM,
20:30	22:00	1.5	PRODUCTION DRILLING	OTHER	EQUIPMENT FAILURE (NON RIG)	REMOVE TRIP NIPPLE, FILL PIPE AND INSTALL ROTATING HEAD, ESTABLISH CIRCULATION @ 300 GPM W/ 4140 PSI, WASH DOWN F/11,120' T/ 11,398', W/ 300 GPM, ROT 50, RUN ON ELEVATORS TO 11,884' WASH DOWN TO 12,000'
22:00	23:30	1.5	PRODUCTION DRILLING	DIR WORK	EQUIPMENT FAILURE (NON RIG)	RE LOG F/ 12,000' - T/ 12,062' @ 175 FPH, GPM: 300, PSI: 4275, RPM'S: 25, TORQUE: 5800 FT/LBS FOR GAMMA OVERLAY. RECYCLE FOR SURVEY, SEND DOWNLINK TO RSS.
23:30	00:00	0.5	PRODUCTION DRILLING	DRILLING		ROTATE DRILL 6 3/4" PRODUCTION LATERAL WITH RSS F/ 12,062' -T/ 12,168' (106' @ 53 FPH) WOB: 30K, GPM: 300, PSI: 5460, RPM'S: 80, TORQUE ON: 12630 FT/LBS, OFF: 8220 FT/LBS, CURRENT DOWNLINK IN RSS: XX HIA WITH XX BUMPS L/R, TAKING RETURNS UN RESTRICTED DOWN FLOWLINE WITH VENTLINE OPEN, B/G UNITS: 285. B/U UNITS: 2860. LITHOLOGY: 70% SHALE/ 30% LIMESTONE



DAILY DRILLING REPORT

RPT DATE: 12/17/2021

RPT NUM.: 16

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WB 2H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC006

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/20/2021

MD/TVD: 15530 FT/11685 FT

PRESENT OPERATIONS: DRILLING 6.75" LATERAL HOLE

ACTIVITY PLANNED: DRILL 6.75" LATERAL AHEAD

JOB: DRILLING

LEASE: UL JEFF EAST 17-27-5 WB

API #: 42475381380000

ELEVATION:

DFS: 13.9

24 HR FTG: 3362

RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB:

DOL: 89

HRS DRLG: 23.5

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/17/2021	12/18/2021	None	MAKING CONNECTIONS F/ MOUSE HOLE / MIXING CHEMICALS / GENERAL HOUSEKEEPING / FORKLIFT SAFETY

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

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 09:00 HRS, 12/13/2021

00:00-06:00 - ROTATE DRILL 6 3/4" PRODUCTION LATERAL WITH RSS F/ 12,168' - T/ 12,900' (732' @ 122 FPH) WOB: 32K, GPM: 300, PPSI: 5,400, RPM'S: 80, TORQUE ON: 12490 FT/LBS, OFF: 5600 FT/LBS, CURRENT

DOWNLINK IN RSS: XX HIA WITH XX BUMPS L/R, TAKING RETURNS UN RESTRICTED DOWN FLOWLINE WITH VENTLINE OPEN, B/G UNITS: 500, B/U UNITS: 2670, LITHOLOGY: 60% SHALE/ 40% LIMESTONE

LAST B.O.P TEST: 12/02/2021 (DUE AGAIN BY 12/23/2021)

NO ACCIDENTS, INCIDENTS OR SPILLS

DOWNTIME 0 HRS (1 HRS TOTAL)

NPT: 0 HRS (30.5 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,718,050	DAILY DRILL COST: \$88,130	CUM DRILL COST: \$1,930,822	CUM MUD COST: \$89,900	CUM WELL COST: \$1,930,822
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BOP

LAST BOP TEST:	12/2/21	LAST BOP DRILL:	NEXT BOP TEST:	12/22/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J-55	4,993	4,970
Intermediate	7.63	29.7	HCL-80	11,042	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	13.1	72.0			3	9	13	16	22	14	233,515			77.00	6.80	8.20

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	BAKER	DD406VTH	5324988	3x13, 3x9	0.575	N	12,062	15,530	3,468	0.5	32	204	6936.0
5	6.75	BAKER HUGHES	K5M323	5325023	2x22, 1x15	0.920	N	11,357	12,062	705	14.6	55	284	48.4

BIT NO. 5	INNER: 1	OUTER: 3	DULL: BT	LOC: S	SEAL: E	GAUGE: I	OTHER: LT	RP: BHA
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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	97	5830	300	.00274	95	14.03	290.4	357	51.83	1237
2	WEATHERFORD	EQ-2200	4.000	12.000		3800	0	.00274	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Baker Hughes DRILL BIT	6.75		1	7	Steerable Assembly-TOMAX	5.25	2.625	18.24
2	Steerable Assembly-Orbit 475	5.25		14.04	8	Sub-Filter Sub	5	2.75	5.41
3	Sub-UBHO	5	2.75	3.03	9	Motor-6/7_8.8 Fixed 0.00_Pin X Pin	5		34.81
4	Monel Collar-NMDC	5.25	2.83	29.19	10	X-Over-X-Over CET43 x XT39	5.25	2.125	3.83
5	Stabilizer-6 5/8 Stab	5	2.75	4.7					
6	Monel Collar-NMPC	5.25	2.75	14.84					

DESCRIPTION: 6 3/4" PRODUCTION RSS BHA #2

LENGTH: 129.09

ROT. WT.: 179,000

BHA WT. AIR:

P.U. WT.: 240,000

BHA WT. MUD:

S.O. WT.: 150,000

HRS. ON JARS:

TORQUE: 17,500

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
14,836	86.76	250.77	11,641		-582.9	-3,360.6	3,390.0	1.6
14,929	87.80	253.98	11,646		-611.0	-3,449.2	3,482.8	3.6
15,022	89.45	255.17	11,648		-635.8	-3,538.8	3,575.8	2.2
15,116	89.26	256.05	11,649		-659.1	-3,629.8	3,669.7	1.0
15,209	87.74	257.46	11,651		-680.4	-3,720.3	3,762.6	2.2
15,303	87.32	259.52	11,655		-699.2	-3,812.3	3,856.2	2.2
15,397	84.29	261.76	11,662		-714.4	-3,904.8	3,949.2	4.0
15,491	83.89	264.42	11,672		-725.7	-3,997.6	4,041.5	2.9

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,202	2,498	14,059

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/19/2021	18:45	SPUD / CASING/CMT	MICHAEL MCCARTY	TRRC	CASSADRA OPER. #14	TRRC JOB # 271559
9/28/2021	18:06	INTERMEDIATE	ELWYN EVANS	TRRC	AUDRI OP#2	
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	24	111
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HRS)		13	168	777
AES DRILLING FLUIDS		MUD ENGINEER		1	24	111
ALTITUDE		2DD'S, 2 MWD HANDS		4	12	78
STAGE 3		2 SOLID CONTROL HANDS		2	24	111
IMPAC		2 MUD LOGGERS		2	24	111
www.wellez.com WellEz On Demand ver. 11.04.2021 TW						

[illegible]

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



DAILY DRILLING REPORT

RPT DATE: 12/18/2021

RPT NUM.: 17

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WB 2H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 WB	RIG PHONE: 432-355-3112
AFE #: 21DC006	API #: 42475381380000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION:	RKB:
SPUD DATE: 9/20/2021	DFS: 14.9	DOL: 90
MD/TVD: 17316 FT/11673 FT	24 HR FTG: 1786	HRS DRLG: 21.5
PRESENT OPERATIONS: DRILLING 6 3/4" PRODUCTION LATERAL @ 17,316'		
ACTIVITY PLANNED: DRILL 6 3/4" PRODUCTION LATERAL F/ 17,316'		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/18/2021	12/19/2021	None	MAKING CONNECTIONS F/ MOUSE HOLE / MIXING CHEMICALS / GENERAL HOUSEKEEPING / FORKLIFT SAFETY
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			
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 09:00 HRS, 12/13/2021			
00:00 – 06:00 ROTATE DRILL 6 3/4" PRODUCTION LATERAL WITH RSS F/ 17,316' - T/ 17,790' (474' @ 79 FPH) WOB: 28-32K, GPM: 300, PPSI: 6,053, RPM'S: 30-50, TORQUE ON: 18200 FT/LBS, OFF: 7720 FT/LBS, CURRENT DOWNLINK IN RSS: ODG @75%, TAKING RETURNS UN RESTRICTED DOWN FLOW LINE WITH VENT LINE OPEN, B/G UNITS: 454, B/U UNITS: 1421, LITHOLOGY: 100% SHALE			
LAST B.O.P TEST: 12/02/2021 (DUE AGAIN BY 12/23/2021)			
NO ACCIDENTS, INCIDENTS OR SPILLS			
DOWNTIME 0 HRS (1 HRS TOTAL)			
NPT: 1.5 HRS (32 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,718,050	DAILY DRILL COST: \$69,353	CUM DRILL COST: \$2,012,725	CUM MUD COST: \$98,880	CUM WELL COST: \$2,012,725
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BOP

LAST BOP TEST: 12/2/21	LAST BOP DRILL:	NEXT BOP TEST: 12/22/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J-55	4,993	4,970
Intermediate	7.63	29.7	HCL-80	11,042	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	13.0	70.0			3	8	12	14	24	12	33,500				6.90	8.80

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	BAKER	DD406VTH	5324988	3x13, 3x9	0.575	N	12,062	17,316	5,254	44.0	32	204	119.4
5	6.75	BAKER HUGHES	K5M323	5325023	2x22, 1x15	0.920	N	11,357	12,062	705	14.6	55	284	48.4

BIT NO. 5	INNER: 1	OUTER: 3	DULL: BT	LOC: S	SEAL: E	GAUGE: I	OTHER: LT	RP: BHA
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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	100	5933	300	.00274	95	14.13	290.4	357	51.83	1237
2	WEATHERFORD	EQ-2200	4.000	12.000		3800	0	.00274	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Baker Hughes DRILL BIT	6.75		1	7	Steerable Assembly-TOMAX	5.25	2.625	18.24
2	Steerable Assembly-Orbit 475	5.25		14.04	8	Sub-Filter Sub	5	2.75	5.41
3	Sub-UBHO	5	2.75	3.03	9	Motor-6/7 8.8 Fixed 0.00 Pin X Pin	5		34.81
4	Monel Collar-NMDC	5.25	2.83	29.19	10	X-Over-X-Over CET43 x XT39	5.25	2.125	3.83
5	Stabilizer-6 5/8 Stab	5	2.75	4.7					
6	Monel Collar-NMPC	5.25	2.75	14.84					

DESCRIPTION: 6 3/4" PRODUCTION RSS BHA #2	BHA WT. AIR:	BHA WT. MUD:	HRS. ON JARS:
LENGTH: 129.09	P.U. WT.: 23,000	S.O. WT.: 180,000	TORQUE: 19,100
ROT. WT.: 181,000			

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
16,621	92.63	266.32	11,698	-770.0	-5,124.5		5,136.1	1.4
16,716	88.28	264.31	11,697	-777.7	-5,219.2		5,229.2	5.0
16,810	91.73	265.77	11,697	-785.9	-5,312.8		5,321.4	4.0
16,904	93.27	268.26	11,693	-790.7	-5,406.6		5,412.8	3.1
17,000	94.11	270.66	11,687	-791.6	-5,502.4		5,505.0	2.6
17,094	93.83	270.28	11,681	-790.9	-5,596.2		5,594.9	0.5
17,189	94.92	271.67	11,673	-789.3	-5,690.9		5,685.4	1.9
17,284	91.25	268.33	11,668	-789.3	-5,785.7		5,776.5	5.2

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,507	11,552

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/19/2021	18:45	SPUD / CASING/CMT	MICHAEL MCCARTY	TRRC	CASSADRA OPER. #14	TRRC JOB # 271559

[illegible]



DAILY DRILLING REPORT

RPT DATE: 12/19/2021

RPT NUM.: 18

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WB 2H	JOB: DRILLING	RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 WB	RIG PHONE: 432-355-3112
APE #: 21DC006	API #: 42475381380000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION:	RKB:
SPUD DATE: 9/20/2021	DFS: 15.9	DOL: 91
MD/TVD: 19471 FT/11618 FT	24 HR FTG: 2155	HRS DRLG: 23.5
PRESENT OPERATIONS: DRILLING 6 3/4" PRODUCTION LATERAL @ 19,471'		
ACTIVITY PLANNED: DRILL 6 3/4" PRODUCTION LATERAL F/ 19,471'		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/19/2021	12/20/2021	None	MAKING CONNECTIONS F/ MOUSE HOLE / MIXING CHEMICALS / GENERAL HOUSEKEEPING / FORKLIFT SAFETY
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			
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 09:00 HRS, 12/13/2021			
00:00 – 06:00 ROTATE DRILL 6 3/4" PRODUCTION LATERAL WITH RSS F/ 19,471' - T/ 20,100' (629' @ 104.8 FPH) WOB: 28-32K, GPM: 300, PPSI: 6,110, RPM'S: 50-70, TORQUE ON: 24500 FT/LBS, OFF: 8230 FT/LBS, CURRENT DOWNLINK IN RSS: ODG @25%, TAKING RETURNS UN RESTRICTED DOWN FLOW LINE WITH VENT LINE OPEN, B/G UNITS: 397, B/U UNITS: 1570, LITHOLOGY: 90% SILTY SHALE 10% LIMESTONE			
LAST B.O.P TEST: 12/02/2021 (DUE AGAIN BY 12/23/2021)			
NO ACCIDENTS, INCIDENTS OR SPILLS			
DOWNTIME 0 HRS (1 HRS TOTAL)			
NPT: 1.5 HRS (32 HRS TOTAL)			

COST DATA

DRILLING AFE AMT: \$3,718,050	DAILY DRILL COST: \$90,552	CUM DRILL COST: \$2,103,277	CUM MUD COST: \$128,459	CUM WELL COST: \$2,103,277
BOP				
LAST BOP TEST:	12/2/21	LAST BOP DRILL:	NEXT BOP TEST: 12/22/21	

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J-55	4,993	4,970
Intermediate	7.63	29.7	HCL-80	11,042	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	13.1	66.0			3	9	13	15	24	11	245,335			78.00	6.90	8.60

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	BAKER	DD406VTH	5324988	3x13, 3x9	0.575	N	12,062	19,471	7,409	65.5	32	204	113.1
5	6.75	BAKER HUGHES	K5M323	5325023	2x22, 1x15	0.920	N	11,357	12,062	705	14.6	55	284	48.4

BIT NO. 5	INNER: 1	OUTER: 3	DULL: BT	LOC: S	SEAL: E	GAUGE: I	OTHER: LT	RP: BHA
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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	100	5933	300	.00274	95	14.13	290.4	357	51.83	1237
2	WEATHERFORD	EQ-2200	4.000	12.000		3800	0	.00274	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Baker Hughes DRILL BIT	6.75		1	7	Steerable Assembly-TOMAX	5.25	2.625	18.24
2	Steerable Assembly-Orbit 475	5.25		14.04	8	Sub-Filter Sub	5	2.75	5.41
3	Sub-UBHO	5	2.75	3.03	9	Motor-6/7_8.8 Fixed 0.00_Pin X Pin	5		34.81
4	Monel Collar-NMDC	5.25	2.83	29.19	10	X-Over-X-Over CET43 x XT39	5.25	2.125	3.83
5	Stabilizer-6 5/8 Stab	5	2.75	4.7					
6	Monel Collar-NMPC	5.25	2.75	14.84					

DESCRIPTION: 6 3/4" PRODUCTION RSS BHA #2

LENGTH: 129.09

ROT. WT.: 171,000

BHA WT. AIR:

P.U. WT.: 265,000

BHA WT. MUD:

S.O. WT.:

HRS. ON JARS:

TORQUE: 24,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
18,692	90.88	251.24	11,625		-1,073.0	-7,159.8	7,175.2	1.7
18,787	91.81	251.12	11,623		-1,103.6	-7,249.6	7,270.0	1.0
18,881	92.54	251.55	11,620		-1,133.7	-7,338.6	7,363.9	0.9
18,973	91.44	252.53	11,616		-1,162.1	-7,426.1	7,455.8	1.6
19,067	89.96	252.91	11,615		-1,190.0	-7,515.8	7,549.7	1.6
19,162	89.31	253.38	11,616		-1,217.5	-7,606.8	7,644.7	0.8
19,256	88.44	253.85	11,618		-1,244.0	-7,696.9	7,738.7	1.1
19,350	90.91	254.69	11,618		-1,269.5	-7,787.4	7,832.7	2.8

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,758	8,794

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
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9/19/2021	18:45	SPUD / CASING/CMT	MICHAEL MCCARTY	TRRC	CASSADRA OPER. #14	TRRC JOB # 271559
9/28/2021	18:06	INTERMEDIATE	ELWYN EVANS	TRRC	AUDRI OP#2	
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	24	159
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HRS)		13	168	1,113
AES DRILLING FLUIDS		MUD ENGINEER		1	24	159
ALTITUDE		2DD'S, 2 MWD HANDS		4	12	102
STAGE 3		2 SOLID CONTROL HANDS		2	24	159
IMPAC		2 MUD LOGGERS		2	24	159
www.wellez.com WellEz On Demand ver. 11.04.2021 TW						

[illegible]



DAILY DRILLING REPORT

RPT DATE: 12/20/2021

RPT NUM.: 19

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WB 2H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC006
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/20/2021
MD/TVD: 22091 FT/11632 FT
PRESENT OPERATIONS: CONDITION AND CIRCULATE MUD, PERFORM CLEAN UP CYCLES
ACTIVITY PLANNED: COMPLETE CLEAN UP CYCLES, SHORT TRIP, CIRCULATE BOTTOMS UP, TRIP OUT OF HOLE

JOB: DRILLING
LEASE: UL JEFF EAST 17-27-5 WB
API #: 42475381380000
ELEVATION:
DFS: 16.9
24 HR FTG: 2620

RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB:
DOL: 92
HRS DRLG: 23

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/20/2021	12/21/2021	None	MAKING CONNECTIONS F/ MOUSE HOLE / MIXING CHEMICALS / GENERAL HOUSEKEEPING / FORKLIFT SAFETY

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
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 09:00 HRS, 12/13/2021

00:00 – 06:00 ROTATE & RECIPROCAT, CIRCULATING 322 GPM. STAGE RPM UP TO 100 RPM WHILE OBSERVING SHOCK AND VIBES ON RSS. PUMPED TOTAL FIVE SWEEPS, RACKING BACK STAND OF DRILL PIPE AFTER EACH BOTTOMS UP.
SWEEPS BROUGHT BACK MINIMAL CUTTINGS
BOTTOMS UP #1 P/U 195 S/O 153, TQ 12.5K
BOTTOMS UP #2 P/U 189 S/O 157, TQ 11.7K
BOTTOMS UP #3 P/U 186 S/O 158, TQ 10.8K
BOTTOMS UP #4 P/U 185 S/O 154, TQ 10.7K

LAST B.O.P TEST: 12/02/2021 (DUE AGAIN BY 12/23/2021)
NO ACCIDENTS, INCIDENTS OR SPILLS
DOWNTIME 0 HRS (1 HRS TOTAL)
NPT: 0 HRS (32 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,718,050	DAILY DRILL COST: \$77,926	CUM DRILL COST: \$2,181,203	CUM MUD COST: \$142,259	CUM WELL COST: \$2,181,203
BOP				
LAST BOP TEST:	12/2/21	LAST BOP DRILL:	NEXT BOP TEST:	12/22/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J-55	4,993	4,970
Intermediate	7.63	29.7	HCL-80	11,042	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	13.2	66.0			3	9	12	15	24	10	243,097				6.80	8.20

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	BAKER	DD406VTH	5324988	3x13, 3x9	0.575	N	12,062	22,091	10,029	84.8	35	204	118.2
5	6.75	BAKER HUGHES	K5M323	5325023	2x22, 1x15	0.920	N	11,357	12,062	705	14.6	55	284	48.4

BIT NO. 5 INNER: 1 OUTER: 3 DULL: BT LOC: S SEAL: E GAUGE: I OTHER: LT 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	100	6780	300	.00274	95	14.55	290.4	357	51.83	1237
2	WEATHERFORD	EQ-2200	4.000	12.000		3800	0	.00274	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Baker Hughes DRILL BIT	6.75		1	7	Steerable Assembly-TOMAX	5.25	2.625	18.24
2	Steerable Assembly-Orbit 475	5.25		14.04	8	Sub-Filter Sub	5	2.75	5.41
3	Sub-UBHO	5	2.75	3.03	9	Motor-6/7_8.8 Fixed 0.00_Pin X Pin	5		34.81
4	Monel Collar-NMDC	5.25	2.83	29.19	10	X-Over-X-Over CET43 x XT39	5.25	2.125	3.83
5	Stabilizer-6 5/8 Stab	5	2.75	4.7					
6	Monel Collar-NMPC	5.25	2.75	14.84					

DESCRIPTION: 6 3/4" PRODUCTION RSS BHA #2
LENGTH: 129.09
ROT. WT.: 170,000

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

BHA WT. MUD:
S.O. WT.: 80,000

HRS. ON JARS:
TORQUE: 27,900

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
21,413	88.50	253.58	11,610	-1,828.2	-9,771.3		9,893.7	2.6
21,508	88.14	253.27	11,613	-1,855.3	-9,862.3		9,988.7	0.5
21,602	87.07	250.35	11,617	-1,884.6	-9,951.5		10,082.5	3.3
21,695	86.20	251.08	11,622	-1,915.3	-10,039.2		10,175.2	1.2
21,788	87.58	251.25	11,627	-1,945.3	-10,127.1		10,268.0	1.5
21,882	89.26	252.33	11,630	-1,974.6	-10,216.3		10,361.9	2.1
21,975	88.86	251.96	11,631	-2,003.2	-10,304.8		10,454.9	0.6
22,055	90.01	254.13	11,632	-2,026.5	-10,381.3		10,534.8	3.1

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,794	6,000

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/19/2021	18:45	SPUD / CASING/CMT	MICHAEL MCCARTY	TRRC	CASSADRA OPER. #14	TRRC JOB # 271559
9/28/2021	18:06	INTERMEDIATE	ELWYN EVANS	TRRC	AUDRI OP#2	
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	24	183
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HR)		13	168	1,281
AES DRILLING FLUIDS		MUD ENGINEER		1	24	183
ALTITUDE		2DD'S, 2 MWD HANDS		4	12	114
STAGE 3		2 SOLID CONTROL HANDS		2	24	183
IMPAC		2 MUD LOGGERS		2	24	183
www.welliez.com				WellEz On Demand	ver. 11.04.2021 TW	

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
00:00	06:00	6.0	PRODUCTION DRILLING	DRILLING		ROTATE DRILL 6 3/4" PRODUCTION LATERAL WITH RSS F/ 19,471' - T/ 20,100' (629' @ 104.8 FPH) WOB: 28-32K, GPM: 300, PPSI: 6,110, RPM'S: 50-70, TORQUE ON: 24500 FT/LBS, OFF: 8230 FT/LBS, CURRENT DOWNLINK IN RSS: ODG @25%, TAKING RETURNS UN RESTRICTED DOWN FLOW LINE WITH VENT LINE OPEN, B/G UNITS: 397, B/U UNITS: 1570, LITHOLOGY: 90% SILTY SHALE 10% LIMESTONE **MANUALLY STEERING RSS WITHOUT RSS NEAR BIT INC. OR AZM. DRILLING REDUCED WHEN DOWN LINKING TO MINIMIZE DOWNLINK FAILURE, VERIFYING DOWNLINK ACCEPTANCE @ RSS BEFORE CONTINUING FORWARD WITH PARAMETERS.
06:00	17:30	11.5				ROTATE DRILL 6 3/4" PRODUCTION LATERAL WITH RSS F/ 20,100' - T/ 21,544' (1444' @ 126 FPH) WOB: 28-32K, GPM: 300, PPSI: 6,720, RPM'S: 50-80, TORQUE ON: 27300 FT/LBS, OFF: 8920 FT/LBS, CURRENT DOWNLINK IN RSS: 315DG @15%, TAKING RETURNS UN RESTRICTED DOWN FLOW LINE WITH VENT LINE OPEN, B/G UNITS: 820, B/U UNITS: 2390, LITHOLOGY: 60% SILTY SHALE 40% LIMESTONE **MANUALLY STEERING RSS WITHOUT RSS NEAR BIT INC. OR AZM. DRILLING REDUCED WHEN DOWN LINKING TO MINIMIZE DOWNLINK FAILURE, VERIFYING DOWNLINK ACCEPTANCE @ RSS BEFORE CONTINUING FORWARD WITH PARAMETERS.
17:30	18:00	0.5	PRODUCTION DRILLING	RIG SERVICE		RIG SERVICE
18:00	23:30	5.5	PRODUCTION DRILLING	DRILLING		ROTATE DRILL 6 3/4" PRODUCTION LATERAL WITH RSS F/ 21,544' - T/ 22,091' TD (547' @ 99.5 FPH) WOB: 28-35K, GPM: 300, PPSI: 6,740, RPM'S: 50-80, TORQUE ON: 28600 FT/LBS, OFF: 9450 FT/LBS, CURRENT DOWNLINK IN RSS: 36DG @100%, TAKING RETURNS UN RESTRICTED DOWN FLOW LINE WITH VENT LINE OPEN, B/G UNITS: 600, B/U UNITS: 2910, LITHOLOGY: 100% SILTY SHALE **MANUALLY STEERING RSS WITHOUT RSS NEAR BIT INC. OR AZM. DRILLING REDUCED WHEN DOWN LINKING TO MINIMIZE DOWNLINK FAILURE, VERIFYING DOWNLINK ACCEPTANCE @ RSS BEFORE CONTINUING FORWARD WITH PARAMETERS.
23:30	00:00	0.5				BEGIN CLEAN UP CYCLE, ROTATE & RECIPROCATATE, CIRCULATING 325 GPM. STAGE RPM UP TO 100 RPM WHILE OBSERVING SHOCK AND VIBES ON RSS. P/U WEIGHT 195 S/O WEIGHT 153 TORQUE 12.5K



DAILY DRILLING REPORT

RPT DATE: 12/21/2021

RPT NUM.: 20

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WB 2H

FIELD: PHANTOM (WOLFCAMP)

APE #: 21DC006

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/20/2021

MD/TVD: 22091 FT/11632 FT

PRESENT OPERATIONS: TRIPPING OUT OF HOLE TO RUN LINER

ACTIVITY PLANNED: TRIP OUT OF HOLE, LAY DOWN BHA, RIG TO AND BEGIN RUNNING 5.5" LINER

JOB: DRILLING

LEASE: UL JEFF EAST 17-27-5 WB

API #: 42475381380000

ELEVATION:

DFS: 17.8

24 HR FTG:

RIG SUPERV: MICHAEL MCCARTY / ELWYN EVANS

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB:

DOL: 93

HRS DRLG:

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/21/2021	12/22/2021	None	TRIPPING, REAMING WET STANDS, HOLDING BACKPRESSURE WHILE TRIPPING

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

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 09:00 HRS, 12/13/2021

TD JEFF EAST 12-27-5 WB 2H @ 23:30 HRS, 12/20/21

00:00 – 02:00 ROTATE & RECIPROCATATE CIRCULATING 322 GPM. 100 RPM, FOR 1 BOTTOMS UP, BOTTOMS UP #1 P/U 184 S/O 157, TQ 10.2K, FLOW CHECK, WELL DEAD, SET UP TO HOLD PRESSURE ON BACKSIDE AND BEGIN TRIPPING OUT

02:00 – 06:00 PULL F/ 22,091' T/16,200' FREE ON ELEVATORS @ 150FPM HOLDING 350PSI ON BACKSIDE

LAST B.O.P TEST: 12/02/2021 (DUE AGAIN BY 12/23/2021)

NO ACCIDENTS, INCIDENTS OR SPILLS

DOWNTIME 0 HRS (1 HRS TOTAL)

NPT: 0 HRS (32 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,718,050	DAILY DRILL COST: \$89,237	CUM DRILL COST: \$2,277,840	CUM MUD COST: \$150,864	CUM WELL COST: \$2,277,840
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BOP

LAST BOP TEST:	12/2/21	LAST BOP DRILL:	NEXT BOP TEST:	12/22/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J-55	4,993	4,970
Intermediate	7.63	29.7	HCL-80	11,042	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	13.2	70.0			3	9	13	15	24	11	239,850			78.00	7.10	8.20

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	BAKER	DD406VTH	5324988	3x13, 3x9	0.575	N	12,062	22,091	10,029	84.8	35	204	118.2
5	6.75	BAKER HUGHES	K5M323	5325023	2x22, 1x15	0.920	N	11,357	12,062	705	14.6	55	284	48.4

BIT NO. 5 INNER: 1 OUTER: 3 DULL: BT LOC: S SEAL: E GAUGE: I OTHER: LT 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	100	5470	300	.00274	95	14.55	290.4	357	51.83	1237
2	WEATHERFORD	EQ-2200	4.000	12.000		3800	0	.00274	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Baker Hughes DRILL BIT	6.75		1	7	Steerable Assembly-TOMAX	5.25	2.625	18.24
2	Steerable Assembly-Orbit 475	5.25		14.04	8	Sub-Filter Sub	5	2.75	5.41
3	Sub-UBHO	5	2.75	3.03	9	Motor-6/7_8.8 Fixed 0.00_Pin X Pin	5		34.81
4	Monel Collar-NMDC	5.25	2.83	29.19	10	X-Over-X-Over CET43 x XT39	5.25	2.125	3.83
5	Stabilizer-6 5/8 Stab	5	2.75	4.7					
6	Monel Collar-NMPC	5.25	2.75	14.84					

DESCRIPTION: 6 3/4" PRODUCTION RSS BHA #2

LENGTH: 129.09

ROT. WT.: 170,000

BHA WT. AIR:

P.U. WT.: 250,000

BHA WT. MUD:

S.O. WT.: 154,000

HRS. ON JARS:

TORQUE: 10,700

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
21,413	88.50	253.58	11,610	-1,828.2	-9,771.3		9,893.7	2.6
21,508	88.14	253.27	11,613	-1,855.3	-9,862.3		9,988.7	0.5
21,602	87.07	250.35	11,617	-1,884.6	-9,951.5		10,082.5	3.3
21,695	86.20	251.08	11,622	-1,915.3	-10,039.2		10,175.2	1.2
21,788	87.58	251.25	11,627	-1,945.3	-10,127.1		10,268.0	1.5
21,882	89.26	252.33	11,630	-1,974.6	-10,216.3		10,361.9	2.1
21,975	88.86	251.96	11,631	-2,003.2	-10,304.8		10,454.9	0.6
22,055	90.01	254.13	11,632	-2,026.5	-10,381.3		10,534.8	3.1

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,264	2,432	10,832

NOTIFICATIONS

[illegible]

[illegible]



DAILY DRILLING REPORT

RPT DATE: 12/22/2021

RPT NUM.: 21

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WB 2H

FIELD: PHANTOM (WOLFCAMP)

AFE #: 21DC006

CONTRACTOR: UNIT DRILLING

SPUD DATE: 9/20/2021

MD/TVD: 22091 FT/11632 FT

PRESENT OPERATIONS: RUNNING LINER

ACTIVITY PLANNED: FINISH RUNNING LINER, BURST FLOAT SUB, CONDITION AND CIRCULATE MUD

JOB: DRILLING

LEASE: UL JEFF EAST 17-27-5 WB

API #: 42475381380000

ELEVATION:

DFS: 18.8

24 HR FTG:

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS

RIG PHONE: 432-355-3112

EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO

RKB:

DOL: 94

HRS DRLG:

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/21/2021	12/22/2021	None	TRIPPING, REAMING WET STANDS, RIGGING IN CASING CREW

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

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 09:00 HRS, 12/13/2021

TD JEFF EAST 12-27-5 WB 2H @ 23:30 HRS, 12/20/21

00:00 - 06:00 RUN 5.5" LINER TO 3941'

LAST B.O.P TEST: 12/02/2021 (DUE AGAIN BY 12/23/2021)

NO ACCIDENTS, INCIDENTS OR SPILLS

DOWNTIME 0 HRS (1 HRS TOTAL)

NPT: 0 HRS (32 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,718,050	DAILY DRILL COST: \$76,246	CUM DRILL COST: \$2,354,086	CUM MUD COST: \$166,188	CUM WELL COST: \$2,354,086
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BOP

LAST BOP TEST:	12/2/21	LAST BOP DRILL:	NEXT BOP TEST:	12/22/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J-55	4,993	4,970
Intermediate	7.63	29.7	HCL-80	11,042	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	13.2	75.0			3	9	13	15	25	9	238,185				7.30	8.60

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	BAKER	DD406VTH	5324988	3x13, 3x9	0.575	N	12,062	22,091	10,029	84.8	35	204	118.2
5	6.75	BAKER HUGHES	K5M323	5325023	2x22, 1x15	0.920	N	11,357	12,062	705	14.6	55	284	48.4

BIT NO. 5 INNER: 1 OUTER: 3 DULL: BT LOC: S SEAL: E GAUGE: I OTHER: LT 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	100	5470	300	.00274	95		290.4	357		1237
2	WEATHERFORD	EQ-2200	4.000	12.000		3800	0	.00274	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Baker Hughes DRILL BIT	6.75		1	7	Steerable Assembly-TOMAX	5.25	2.625	18.24
2	Steerable Assembly-Orbit 475	5.25		14.04	8	Sub-Filter Sub	5	2.75	5.41
3	Sub-UBHO	5	2.75	3.03	9	Motor-6/7 8.8 Fixed 0.00 Pin X Pin	5		34.81
4	Monel Collar-NMDC	5.25	2.83	29.19	10	X-Over-X-Over CET43 x XT39	5.25	2.125	3.83
5	Stabilizer-6 5/8 Stab	5	2.75	4.7					
6	Monel Collar-NMPC	5.25	2.75	14.84					

DESCRIPTION: 6 3/4" PRODUCTION RSS BHA #2

LENGTH: 129.09

ROT. WT.:

BHA WT. AIR:

P.U. WT.:

BHA WT. MUD:

S.O. WT.:

HRS. ON JARS:

TORQUE:

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
21,413	88.50	253.58	11,610		-1,828.2	-9,771.3	9,893.7	2.6
21,508	88.14	253.27	11,613		-1,855.3	-9,862.3	9,988.7	0.5
21,602	87.07	250.35	11,617		-1,884.6	-9,951.5	10,082.5	3.3
21,695	86.20	251.08	11,622		-1,915.3	-10,039.2	10,175.2	1.2
21,788	87.58	251.25	11,627		-1,945.3	-10,127.1	10,268.0	1.5
21,882	89.26	252.33	11,630		-1,974.6	-10,216.3	10,361.9	2.1
21,975	88.86	251.96	11,631		-2,003.2	-10,304.8	10,454.9	0.6
22,055	90.01	254.13	11,632		-2,026.5	-10,381.3	10,534.8	3.1

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,291	9,541

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/19/2021	18:45	SPUD / CASING/CMT	MICHAEL MCCARTY	TRRC	CASSADRA OPER. #14	TRRC JOB # 271559

[illegible]

TOTAL HRS	24.0				
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DAILY DRILLING REPORT

RPT DATE: 12/23/2021

RPT NUM.: 22

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WB 2H	JOB: DRILLING	RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
FIELD: PHANTOM (WOLFCAMP)	LEASE: UL JEFF EAST 17-27-5 WB	RIG PHONE: 432-355-3112
AFE #: 21DC006	API #: 42475381380000	EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
CONTRACTOR: UNIT DRILLING	ELEVATION:	RKB:
SPUD DATE: 9/20/2021	DFS: 19.8	DOL: 95
MD/TVD: 22091 FT/11632 FT	24 HR FTG:	HRS DRLG:
PRESENT OPERATIONS: CIRCULATING OUT CEMENT		
ACTIVITY PLANNED: PRESSURE TEST BACKSIDE, SWAP CASING TO WATER, LAY OUT SIDEWAYS, BEGIN RUNNING TIE BACK		

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/23/2021	12/24/2021	None	RUNNIG LINER, TRIPPING, RIGGING IN CEMENTERS

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

RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 09:00 HRS, 12/13/2021

TD JEFF EAST 12-27-5 WB 2H @ 23:30 HRS, 12/20/21

00:00 – 02:30 DROP SETTING BALL AND PUMP DOWN @ 25 SPM W/ PRESSURE UP TO 3,000 PSI, BLEED OFF TO 1560 PSI VERIFYING HANGER IS SET. RELEASE FROM HANGER WITH RUNNING TOOL AND PERFORM SLACK OFF TESTS TO CONFIRM HANGER IS SET 150K DOWN TO TEST. PICKED UP HAD FREE TRAVEL AT 223,000 LB. PRESSURE UP AND BLOW LOWER BALL SEAT AT 3750 PSI. PICK UP AND PUT 15 ROUNDS TO THE RIGHT IN DRILL PIPE TWICE TO VERIFY CORRECT RELEASE FROM LINER HANGER, CIRCULATE CASING CAPACITY @ 4 BPM TO VERIFY NO PACK OFF OR OBSTRUCTION IN LINER HANGER PRIOR TO CEMENTING

02:30 – 06:00 CLOSE MANUAL T.I.W VALVE ON CEMENT HEAD & PRESSURE UP TO 200 PSI TO VERIFY NO CEMENT OR PRESSURE LEAKAGE INTO SURFACE LINES, TEST LINES TO 8,000 PSI. PUMP 25 BBL 14.0# BARITE SPACER @ 3 BPM, FOLLOWED BY TAIL CEMENT, 1045 SX (227 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/ 5430 PSI, , WASH UP & PRIME LINE WITH SUGAR WATER, PUMP 5 BBLs OF SUGAR WATER W/ 0.005% BIOCID, DROP ALLAMON LANDING WIPER DART, FOLLOWED BY 20 BBLs OF FRESHWATER WITH SUGAR & 0.005% BIOCID, PUMPED @ 8 BPM TO PRESSURE @ 50 BBLs GONE SLOWED RATE TO 4 BPM W/ 2960 PSI, CONTINUE PUMPING DISP @ 4 BPM SLOWING TO 3.5BPM @ 310 AWAY DUE TO LOSSES, SLOWING TO 3BPM @ 350 AWAY, FINAL LIFT PSI : 3230, BUMP PLUG 380 BBLs PRESSURE UP TO 4200PSI, HELD PSI FOR 5 MIN'S, BLEED BACK 4.5 BBLs FLOATS HOLDING

LAST B.O.P TEST: 12/02/2021 (DUE AGAIN BY 12/23/2021)

NO ACCIDENTS, INCIDENTS OR SPILLS

DOWNTIME 0 HRS (1 HRS TOTAL)

NPT: 0 HRS (32 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,718,050	DAILY DRILL COST: \$382,095	CUM DRILL COST: \$2,736,181	CUM MUD COST: \$167,013	CUM WELL COST: \$2,736,181
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BOP

LAST BOP TEST:	12/2/21	LAST BOP DRILL:	NEXT BOP TEST:	12/22/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J-55	4,993	4,970
Intermediate	7.63	29.7	HCL-80	11,042	
Liner	5.50	23.00	P110	22,071	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	13.5	79.0			3	8	12	15	25	11	237,612			78.00	7.20	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	BAKER	DD406VTH	5324988	3x13, 3x9	0.575	N	12,062	22,091	10,029	84.8	35	204	118.2
5	6.75	BAKER HUGHES	K5M323	5325023	2x22, 1x15	0.920	N	11,357	12,062	705	14.6	55	284	48.4

BIT NO. 5	INNER: 1	OUTER: 3	DULL: BT	LOC: S	SEAL: E	GAUGE: I	OTHER: LT	RP: BHA
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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	100	5470	300	.00274	95		290.4	357		1237
2	WEATHERFORD	EQ-2200	4.000	12.000		3800	0	.00274	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Baker Hughes DRILL BIT	6.75		1	7	Steerable Assembly-TOMAX	5.25	2.625	18.24
2	Steerable Assembly-Orbit 475	5.25		14.04	8	Sub-Filter Sub	5	2.75	5.41
3	Sub-UBHO	5	2.75	3.03	9	Motor-6/7 .8.8 Fixed 0.00 Pin X Pin	5		34.81
4	Monel Collar-NMDC	5.25	2.83	29.19	10	X-Over-X-Over CET43 x XT39	5.25	2.125	3.83
5	Stabilizer-6 5/8 Stab	5	2.75	4.7					
6	Monel Collar-NMPC	5.25	2.75	14.84					

DESCRIPTION: 6 3/4" PRODUCTION RSS BHA #2

LENGTH: 129.09

ROT. WT.:

BHA WT. AIR:

P.U. WT.:

BHA WT. MUD:

S.O. WT.:

HRS. ON JARS:

TORQUE:

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
21,413	88.50	253.58	11,610		-1,828.2	-9,771.3	9,893.7	2.6
21,508	88.14	253.27	11,613		-1,855.3	-9,862.3	9,988.7	0.5
21,602	87.07	250.35	11,617		-1,884.6	-9,951.5	10,082.5	3.3
21,695	86.20	251.08	11,622		-1,915.3	-10,039.2	10,175.2	1.2
21,788	87.58	251.25	11,627		-1,945.3	-10,127.1	10,268.0	1.5
21,882	89.26	252.33	11,630		-1,974.6	-10,216.3	10,361.9	2.1
21,975	88.86	251.96	11,631		-2,003.2	-10,304.8	10,454.9	0.6
22,055	90.01	254.13	11,632		-2,026.5	-10,381.3	10,534.8	3.1

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		657	8,884

NOTIFICATIONS

[illegible]



DAILY DRILLING REPORT

RPT DATE: 12/24/2021

RPT NUM.: 23

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WB 2H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC006
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/20/2021
MD/TVD: 22091 FT/11632 FT
PRESENT OPERATIONS: RUNNING TIE BACK
ACTIVITY PLANNED: FINISH RUNNING TIE BACK, LAND, SPACE OUT, INSTALL BPV AND PACKOFF, NIPPLE DOWN

JOB: DRILLING
LEASE: UL JEFF EAST 17-27-5 WB
API #: 42475381380000
ELEVATION:
DFS: 20.8
24 HR FTG:

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB:
DOL: 96
HRS DRLG:

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/21/2021	12/22/2021	None	CEMENTING, LAYING OUT SIDEWAYS, RUNNING TIEBACK / CASING OPS

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
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 09:00 HRS, 12/13/2021
TD JEFF EAST 12-27-5 WB 2H @ 23:30 HRS, 12/20/21

00:00 - 06:00 RUN 5.5", 23#, P-110, TXP TIE BACK STRING F/ 2,500' TO 9,900'

LAST B.O.P TEST: 12/02/2021 (DUE AGAIN BY 12/23/2021)

NO ACCIDENTS, INCIDENTS OR SPILLS

DOWNTIME 0 HRS (1 HRS TOTAL)

NPT: 0 HRS (32 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,718,050 DAILY DRILL COST: \$98,760 CUM DRILL COST: \$2,834,941 CUM MUD COST: \$172,737 CUM WELL COST: \$2,834,941

BOP

LAST BOP TEST: 12/2/21 LAST BOP DRILL: NEXT BOP TEST: 12/22/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J-55	4,993	4,970
Intermediate	7.63	29.7	HCL-80	11,042	
Liner	5.50	23.00	P110	22,071	
Liner #2	5.50	23	P110	10,251	

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
9:00	13.2	76.0			3	8	11	14	23	12	226,506			78.00	7.40	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	6.75	BAKER	DD406VTH	5324988	3x13, 3x9	0.575	N	12,062	22,091	10,029	84.8	35	204	118.2
5	6.75	BAKER HUGHES	K5M323	5325023	2x22, 1x15	0.920	N	11,357	12,062	705	14.6	55	284	48.4

BIT NO. 6 INNER: 1 OUTER: 2 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				.00274	95					
2	WEATHERFORD	EQ-2200	4.000	12.000			0	.00274	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Baker Hughes DRILL BIT	6.75		1	7	Steerable Assembly-TOMAX	5.25	2.625	18.24
2	Steerable Assembly-Orbit 475	5.25		14.04	8	Sub-Filter Sub	5	2.75	5.41
3	Sub-UBHO	5	2.75	3.03	9	Motor-6/7 8.8 Fixed 0.00 Pin X Pin	5		34.81
4	Monel Collar-NMDC	5.25	2.83	29.19	10	X-Over-X-Over CET43 x XT39	5.25	2.125	3.83
5	Stabilizer-6 5/8 Stab	5	2.75	4.7					
6	Monel Collar-NMPC	5.25	2.75	14.84					

DESCRIPTION: 6 3/4" PRODUCTION RSS BHA #2

LENGTH: 129.09

ROT. WT.:

BHA WT. AIR:

P.U. WT.:

BHA WT. MUD:

S.O. WT.:

HRS. ON JARS:

TORQUE:

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
21,413	88.50	253.58	11,610	-1,828.2	-9,771.3		9,893.7	2.6
21,508	88.14	253.27	11,613	-1,855.3	-9,862.3		9,988.7	0.5
21,602	87.07	250.35	11,617	-1,884.6	-9,951.5		10,082.5	3.3
21,695	86.20	251.08	11,622	-1,915.3	-10,039.2		10,175.2	1.2
21,788	87.58	251.25	11,627	-1,945.3	-10,127.1		10,268.0	1.5
21,882	89.26	252.33	11,630	-1,974.6	-10,216.3		10,361.9	2.1
21,975	88.86	251.96	11,631	-2,003.2	-10,304.8		10,454.9	0.6
22,055	90.01	254.13	11,632	-2,026.5	-10,381.3		10,534.8	3.1

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,028	7,856

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/19/2021	18:45	SPUD / CASING/CMT	MICHAEL MCCARTY	TRRC	CASSADRA OPER. #14 TRRC JOB # 271559	

9/28/2021	18:06	INTERMEDIATE	ELWYN EVANS	TRRC	AUDRI OP#2	
12/22/2021	14:30	RODUCTION CASING/CN	OWENS/BLODGETT	TRRC	VALLERY	
PERSONNEL						
Company		Job Function		Total Personnel	Total Daily Hours	Cumulative Hours
PERCUSSION PETROLEUM		DSM (12 HRS/MAN)		2	24	279
UNIT DRILLING		1 RIG MANAGER (24 HRS), 6 MAN CREWS (12 HRS)		13	168	1,953
AES DRILLING FLUIDS		MUD ENGINEER		1	24	279
ALTITUDE		2DD'S, 2 MWD HANDS				138
STAGE 3		2 SOLID CONTROL HANDS		2	24	279
ALLAMON		TOOL HAND		1	12	36
TENARIS		THREAD REP		1	5	17
4 STAR CASING		CASING CREW		5	5	10
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19:30	21:30	2.0	PRODUCTION CASING	RUN CSG & CEMENT		PRE-JOB SAFETY MEETING WITH ALLAMON, TENARIS, 4-STAR CASING CREW, RIG CREW AND COMPANY MAN, RIG IN CASING EQUIPMENT, TROUBLESHOOT DUMP VALVE FAILURE, REPLACE DUMP VALVE
21:30	00:00	2.5	PRODUCTION CASING	RUN CSG & CEMENT		RUN 5.5", 23#, P-110, TXP TIE BACK STRING TO 2500'
TOTAL HRS		24.0				

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ver_11.04.2021 TW



DAILY DRILLING REPORT

RPT DATE: 12/25/2021

RPT NUM.: 24

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WB 2H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC006
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/20/2021
MD/TVD: 22091 FT/11632 FT
PRESENT OPERATIONS: RIGGING DOWN
ACTIVITY PLANNED: RIG OUT FOR TRUCKS

JOB: DRILLING
LEASE: UL JEFF EAST 17-27-5 WB
API #: 42475381380000
ELEVATION:
DFS: 21.8
24 HR FTG:

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB:
DOL: 97
HRS DRLG:

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/25/2021	12/26/2021	None	LAYING OUT SIDEWAYS, RUNNING TIEBACK / CASING OPS, LOADER USE

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021
83 MILE RIG MOVE
138 HOUR (6.75 DAYS) RIG MOVE
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00
14.5 HR WALK (6 DAYS)
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021
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
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 09:00 HRS, 12/13/2021
TD JEFF EAST 12-27-5 WB 2H @ 23:30 HRS, 12/20/21

00:00 - 04:30 PREP FLOOR AND RACKS, INSTALL MOUSEHOLE, BEGIN LAYING DOWN SIDEWAYS OUT OF MOUSEHOLE

04:30 – 06:00 BEGIN RIGGING DOWN, RIG DOWN FLOOR, CLEAN SUBS
**PREP RIG AND SITE FOR RIG MOVING TRUCKS ON 27TH AM TO THE UL PAHASKA 5002H

LAST B.O.P TEST: 12/02/2021 (DUE AGAIN BY 12/23/2021)
NO ACCIDENTS, INCIDENTS OR SPILLS
DOWNTIME 0 HRS (1 HRS TOTAL)
NPT: 0 HRS (32 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,718,050	DAILY DRILL COST: \$374,688	CUM DRILL COST: \$3,209,629	CUM MUD COST: \$173,562	CUM WELL COST: \$3,209,629
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BOP

LAST BOP TEST:	12/2/21	LAST BOP DRILL:	NEXT BOP TEST:	12/22/21
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CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J-55	4,993	4,970
Intermediate	7.63	29.7	HCL-80	11,042	
Liner	5.50	23.00	P110	22,071	
Liner #2	5.50	23	P110	10,251	

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
6	6.75	BAKER	DD406VTH	5324988	3x13, 3x9	0.575	N	12,062	22,091	10,029	84.8	35	204	118.2
5	6.75	BAKER HUGHES	K5M323	5325023	2x22, 1x15	0.920	N	11,357	12,062	705	14.6	55	284	48.4

BIT NO. 6 INNER: 1 OUTER: 2 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				.00274	95					
2	WEATHERFORD	EQ-2200	4.000	12.000			0	.00274	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Baker Hughes DRILL BIT	6.75		1	7	Steerable Assembly-TOMAX	5.25	2.625	18.24
2	Steerable Assembly-Orbit 475	5.25		14.04	8	Sub-Filter Sub	5	2.75	5.41
3	Sub-UBHO	5	2.75	3.03	9	Motor-6/7 .8.8 Fixed 0.00_Pin X Pin	5		34.81
4	Monel Collar-NMDC	5.25	2.83	29.19	10	X-Over-X-Over CET43 x XT39	5.25	2.125	3.83
5	Stabilizer-6 5/8 Stab	5	2.75	4.7					
6	Monel Collar-NMPC	5.25	2.75	14.84					

DESCRIPTION: 6 3/4" PRODUCTION RSS BHA #2
LENGTH: 129.09
ROT. WT.:

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

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

HRS. ON JARS:
TORQUE:

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
21,413	88.50	253.58	11,610	-1,828.2	-9,771.3		9,893.7	2.6
21,508	88.14	253.27	11,613	-1,855.3	-9,862.3		9,988.7	0.5
21,602	87.07	250.35	11,617	-1,884.6	-9,951.5		10,082.5	3.3
21,695	86.20	251.08	11,622	-1,915.3	-10,039.2		10,175.2	1.2
21,788	87.58	251.25	11,627	-1,945.3	-10,127.1		10,268.0	1.5
21,882	89.26	252.33	11,630	-1,974.6	-10,216.3		10,361.9	2.1
21,975	88.86	251.96	11,631	-2,003.2	-10,304.8		10,454.9	0.6
22,055	90.01	254.13	11,632	-2,026.5	-10,381.3		10,534.8	3.1

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		747	7,109

NOTIFICATIONS

[illegible]



DAILY DRILLING REPORT

RPT DATE: 12/26/2021

RPT NUM.: 25

RIG: UNIT 407

WELL/JOB INFORMATION

WELL NAME: UL JEFF EAST 17-27-5 WB 2H
FIELD: PHANTOM (WOLFCAMP)
AFE #: 21DC006
CONTRACTOR: UNIT DRILLING
SPUD DATE: 9/20/2021
MD/TVD: 22091 FT/11632 FT
PRESENT OPERATIONS: RIGGING DOWN
ACTIVITY PLANNED:

JOB: DRILLING
LEASE: UL JEFF EAST 17-27-5 WB
API #: 42475381380000
ELEVATION:
DFS: 22.0
24 HR FTG:

RIG SUPERV: CHRIS BLODGETT / ELWYN EVANS
RIG PHONE: 432-355-3112
EMAIL: UNIT407@PERCUSSIONPETROLEUM.CO
RKB:
DOL: 98
HRS DRLG:

COMMENTS

Last Safety Meeting Date	Next Safety Meeting Date	Accident Type	Safety Meeting Topic
12/25/2021	12/26/2021		LAYING OUT SIDEWAYS, RUNNING TIEBACK / CASING OPS, LOADER USE

BEGIN MOVE FROM RIG YARD 0600HRS 09/01/2021
83 MILE RIG MOVE
138 HOUR (6.75 DAYS) RIG MOVE
SURFACE RIG RELEASE F/ UL JEFF EAST 17-27-5 WA 1H 09/12/2021 @ 11:00
14.5 HR WALK (.6 DAYS)
SPUD UL JEFF EAST 17-27-5 TB 3H @ 01:30 HRS ON 9/13/2021
TD UL JEFF EAST 17-27-5 TB 3H @ 14:30 ON 9/14/2021
RELEASE RIG FROM SURFACE JEFF EAST 17-27-3 TB 3H 06:00 9/15/21
PICK UP RIG FROM JEFF EAST 17-27-5 WB 2H 19:00 9/29/21
RELEASE RIG F/ JEFF EAST 17-27-5 TB 3H @ 1900 HRS, 10/7/2021
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 20:30 HRS, 10/14/2021
PICK UP RIG ON JEFF EAST 17-27-5 WA 1H @ 11:00 HRS, 10/14/2021
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
RELEASE RIG F/ JEFF EAST 17-27-5 WA 4H @ 09:00 HRS, 12/13/2021
TD JEFF EAST 12-27-5 WB 2H @ 23:30 HRS, 12/20/21
RIG RELEASE FROM JEFF EAST 12-27-5 WB 2H @ 04:30 HRS, 12/26/21 RELEASE TO THE UL PAHASKA 21-6 S005H

LAST B.O.P TEST: 12/02/2021 (DUE AGAIN BY 12/23/2021)

NO ACCIDENTS, INCIDENTS OR SPILLS

DOWNTIME 0 HRS (1 HRS TOTAL)

NPT: 0 HRS (32 HRS TOTAL)

COST DATA

DRILLING AFE AMT: \$3,718,050 DAILY DRILL COST: \$5,230 CUM DRILL COST: \$3,214,859 CUM MUD COST: \$173,562 CUM WELL COST: \$3,214,859

BOP

LAST BOP TEST: 12/2/21 LAST BOP DRILL: NEXT BOP TEST: 12/22/21

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	10.75	45.5	J-55	4,993	4,970
Intermediate	7.63	29.7	HCL-80	11,042	
Liner	5.50	23.00	P110	22,071	
Liner #2	5.50	23	P110	10,251	

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
6	6.75	BAKER	DD406VTH	5324988	3x13, 3x9	0.575	N	12,062	22,091	10,029	84.8	35	204	118.2
5	6.75	BAKER HUGHES	K5M323	5325023	2x22, 1x15	0.920	N	11,357	12,062	705	14.6	55	284	48.4

BIT NO. 6 INNER: 1 OUTER: 2 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				.00274	95					
2	WEATHERFORD	EQ-2200	4.000	12.000			0	.00274	95					

BHA

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CONSUMABLES

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

NOTIFICATIONS

Date	Time	Type	Engineer / Supervisor	Agency	Agency Contact	Comments
9/19/2021	18:45	SPUD / CASING/CMT	MICHAEL MCCARTY	TRRC	CASSADRA OPER. #14 TRRC JOB # 271559	

