



DRILLING REPORT

WELL: UL Fourmile 2140-17 8H				CONTRACTOR: Unit				RIG: Unit 412		
RPT DATE: October 26, 2018			SPUD DATE:		CASING	OD	WT	GRD	MD	TVD
		API #:	42-475-37653	DFS:	Surface	13-5/8	54	J-55	1,375	1,375
				REPORT NO:	1					
FIELD:		Phantom (Wolfcamp)		DOL:	11					
ELEV:		RKB:		LAST BOP TEST:	10/20/18					
MD:		TVD:								
24 HR FTG:		HRS DRLG:		CSGHD:						

DRILLING FLUID														SHOE TEST:				
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
										REDUCED PUMP RATES								
										PUMP	SPM	PRESS	DEPTH					
										#1								
										#2								

BIT DATA																																	
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN		OUT		FEET		HRS		WOB		RPM		ROP							
1		17.50		ULTERRA		ULTERRA		35111		9						1,391		1,391		5.1		20		0.138		271							
BIT NO.				INNER				OUTER				DULL				LOC				SEAL				GAUGE				OTHER				RP	

HYDRAULICS DATA																		
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP				
1	WEATHERFORD	Q2200	4.500	12.000														
2	WEATHERFORD	Q2200	4.500	12.000														

BHA																		
DESCRIPTION:																		
LENGTH		BHA WT. AIR			BHA WT. MUD			HRS. ON JARS										
ROT. WT.		P.U. WT.			S.O. WT.			TORQUE										
TIME MADE UP		DATE MADE UP			TIME PULLED			DATE PULLED										

SURVEY DATA																		
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS										

CONSUMABLES	DIESEL FUEL (gal) Rcvd/Used/On Hand:								DRILL H2O (gal) Rcvd/Used/On Hand:									
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OPERATIONS TIME LOG						
FROM	TO	HRS	CODE		Start MD	End MD
00:00	01:30	1.5	Other	WALK RIG FROM ULFOUR MILE 6H TO ULFOUR MILE 8H 20'	1391	1391
01:30	02:30	1.0	Rig Up & Tear Down	RIG UP AFTER WALK SET CATWALK HOOK UP FLOW LINE MUD LINE	1391	1391
02:30	06:00	3.5	Nipple Up B.O.P.	NIPPLE UP BOP SET SPEED HEAD AND DRILLING ADAPTER NIPPLE UP BOP TORQ BOP STUDS NIPPLE UP ROTATING HEAD AND ORBIT VALVE	1391	1391



DRILLING REPORT

WELL: UL Fourmile 2140-17 8H										CONTRACTOR: Unit										RIG:		Unit 412	
RPT DATE: October 27, 2018										SPUD DATE:		CASING		OD	WT	GRD	MD	TVD					
API #: 42-475-37653										DFS:		Surface		13-5/8	54	J-55	1,375	1,375					
FIELD: Phantom (Wolfcamp)										REPORT NO: 2													
ELEV:										DOL: 12													
MD: 3,205										RKB:				LAST BOP TEST: 10/20/18									
TVD: 3,202																							
24 HR FTG: 1,814										HRS DRLG: 13.5		CSGHD:											
DRILLING FLUID																	SHOE TEST:						
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP					
23:15	10.3	27.0		1	1	9.5		1	1	1	1	2	162,000		0.15	2,000		3.20					
REDUCED PUMP RATES																							
PUMP																	SPM	PRESS	DEPTH				
#1																							
#2																							
BIT DATA																							
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP			
3		12.25		Security		GT66MKs		13133863		x 15 1.035 T				1,391	3,205	1,814	13.5	35	120	134			
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP							
HYDRAULICS DATA																							
PUMP	MAKE		MODEL		LINER		STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP						
1	WEATHERFORD		Q2200		4.500		12.000	96	4000	753	3.97	97											
2	WEATHERFORD		Q2200		4.500		12.000	96	4000	753	3.97	97											
BHA																							
DESCRIPTION:		1st Intermediate - 1																					
LENGTH		1,698.95		BHA WT. AIR				BHA WT. MUD				HRS. ON JARS											
ROT. WT.		180,000		P.U. WT.		185,000		S.O. WT.		165,000		TORQUE				14,850							
TIME MADE UP		15:30		DATE MADE UP		10/26/2018		TIME PULLED				DATE PULLED											
SURVEY DATA																							
MD		ANGLE		AZIMUTH		TVD		N/S		COORDINATES		E/W		V. SECTION		DLS							
2,832		3.65		348.94		2,830		58.5		-25.8		9.6		1.1									
2,925		3.81		354.40		2,923		64.4		-26.7		8.8		0.4									
3,018		3.87		347.58		3,016		70.6		-27.7		8.1		0.5									
3,111		3.97		352.63		3,109		76.8		-28.8		7.5		0.4									
CONSUMABLES																							
DIESEL FUEL (gal) Rcvd/Used/On Hand:																							
DRILL H2O (gal) Rcvd/Used/On Hand:																							
OPERATIONS TIME LOG																							
FROM	TO	HRS	CODE													Start MD	End MD						
06:00	08:00	2.0	Rig Up & Tear Down	Bolt flowline, fill up lines, rotating head clamp, center stack												1391	1391						
08:00	08:30	0.5	Nipple Up B.O.P.	Nipple up on Cactus Speed Head. Torque rotating head and spacer spool, flange to Orbit valve.												1391	1391						
08:30	09:00	0.5	Test B.O.P.	Test BOP split for nipple down flanges 250/5000 psi 5/10 minutes												1391	1391						
09:00	09:30	0.5	Other	Test 13 3/8 casing to 1000 psi f/ 30 minutes												1391	1391						
09:30	10:00	0.5	Other	Pick tool, set wear bushing, lay down setting tool												1391	1391						
10:00	10:30	0.5	Trips	Install wear bushing. Lay down running tool												1391	1391						
10:30	13:00	2.5	Trips	PJSM for BHA. Pick up motor, stabilizer, UBHO, NMDC scribe and install MWD and test. Install bit. Pick up NM stabilizer, L/D Thruster. Run in remaining BHA												1391	1391						
13:00	14:00	1.0	Trips	Trip in to float collar. Pull trip nipple and install rotating head.												1391	1391						
14:00	14:30	0.5	Other	Pull trip nipple and remove rotating head from DP and install rotating head on HWDP												1391	1391						
14:30	15:30	1.0	Other	Drill shoe track												1391	1391						
15:30	17:00	1.5	Drilling	Drilling formation F/1391-1606												1391	1606						
17:00	17:30	0.5	Lubricate Rig	Rig and top drive service												1606	1606						
17:30	01:30	8.0	Drilling	Drilling F/1606-2812 WOB 25-35K SPP 3800 DIFF 550-900 GPM 753 TOP DRIVE RPM 80 TORQ=12K-16K												1606	2812						
01:30	02:00	0.5	Other	CHANG OUT ROTATING HEAD												2812	2812						
02:00	06:00	4.0	Drilling	Drilling F/2,812'-3,205' WOB 25-35K SPP 4000 DIFF 550-900 GPM 753 TOP DRIVE RPM 80 TORQ=12K-16K												2812	3205						
TOTAL HRS 24.0																							
WEATHER																							
GEN. CONDITIONS:		CLEAR		WIND SPEED:		5		WIND DIRECTION:		SSE		TEMP:		51									
COMMENTS: Natural Gas Usage Daily: 1127.78Total: 1127.78																							
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DRILLING REPORT

WELL: UL Fourmile 2140-17 8H										CONTRACTOR: Unit										RIG:		Unit 412					
RPT DATE: October 28, 2018										SPUD DATE:					CASING			OD	WT	GRD	MD	TVD					
API #: 42-475-37653					DFS:					Surface			13-5/8		54	J-55	1,375	1,375									
FIELD: Phantom (Wolfcamp)										REPORT NO: 3																	
ELEV:					RKB:					DOL: 13																	
MD: 3,830					TVD: 3,826					LAST BOP TEST: 10/20/18																	
24 HR FTG: 625					HRS DRLG: 10					CSGHD:																	
DRILLING FLUID																	SHOE TEST:										
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP							
16:30	10.3	29.0		2	2	7.5		3	4	3	2	10	180,000			0.01	2,000		1.80								
												REDUCED PUMP RATES															
												PUMP			SPM			PRESS			DEPTH						
												#1															
#2																											
BIT DATA																											
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN		OUT		FEET		HRS	WOB	RPM	ROP				
4		12.25		SECURITY		MM65D		13019161		8X12 TFA 1				3,830													
3		12.25		Security		GT66MKs		13133863		15 1.035 TI		N		3,205		3,830		625		9.0	35	120	69				
BIT NO.		3		INNER		8		OUTER		6		DULL		DRED OI		LOC		INNER		SEAL							
														GAUGE		IN		OTHER		CT		ROP					
HYDRAULICS DATA																											
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD	AV DP	AV DC	BIT HHP	PUMP HHP			
1		WEATHERFORD		Q2200		4.500		12.000																			
2		WEATHERFORD		Q2200		4.500		12.000																			
BHA																											
DESCRIPTION:				1st Intermediate - 2																							
LENGTH				1,699.04				BHA WT. AIR								BHA WT. MUD								HRS. ON JARS			
ROT. WT.				180,000				P.U. WT.				185,000				S.O. WT.				165,000				TORQUE		14,850	
TIME MADE UP				06:00				DATE MADE UP				10/28/2018				TIME PULLED								DATE PULLED			
SURVEY DATA																											
MD		ANGLE				AZIMUTH				TVD				N/S		COORDINATES				E/W		V. SECTION		DLS			
3,482		3.73				344.73				3,479				100.7		-35.1						7.4		0.1			
3,575		3.80				352.73				3,572				106.7		-36.3						6.9		0.6			
3,668		3.40				348.48				3,665				112.5		-37.2						6.3		0.5			
3,760		3.39				3.67				3,756				117.8		-37.6						5.3		1.0			
CONSUMABLES				DIESEL FUEL (gal) Rcvd/Used/On Hand:								DRILL H2O (gal) Rcvd/Used/On Hand:															
OPERATIONS TIME LOG																											
FROM		TO		HRS		CODE														Start MD		End MD					
06:00		13:30		7.5		Drilling		Drilling F/ 3205 - 3737 WOB: 25-40 SPP: 4000 DIFF: 350-900 GPM: 753 TOP DRIVE RPM: 60-80 TRQ: 12-16												3205		3737					
13:30		14:00		0.5		Lubricate Rig		Rig and topdrive service												3737		3737					
14:00		16:30		2.5		Drilling		Drilling F/ 3737-3830 WOB: 15-50 SPP: 4000 DIFF: 350-900 GPM: 753 TOP DRIVE RPM: 60-80-10 TRQ: 12-16. Poor ROP, try assortment of drilling parameters without improvement in ROP												3737		3830					
16:30		17:30		1.0		Cond Mud & Circ		Circulate while build and pump trip slug												3830		3830					
17:30		18:30		1.0		Trips		Trip out due to poor ROP to BHA. Pull rotating head and install trip nipple												3830		3830					
18:30		21:00		2.5		Trips		HANDLE BHA RACK BACK 5-6.5" STANDS DRILL COLLARS 2-8" STANDS DRILL COLLARS IN DERRICK DRAIN MOTOR BREAK BIT												3830		3830					
21:00		23:30		2.5		Trips		M/U NEW MOTOR AND BIT SCRIBE AND SURFACE TEST SAME												3830		3830					
23:30		01:30		2.0		Trips		TRIP IN HOLE PULL TRIP NIPPLE INSTALL ROTATING HEAD FILL PIPE												3830		3830					
01:30		02:00		0.5		Dir Work		FILL PIPE TEST MWD TOOL OUTSIDE SHOE MWD TOOL FLAT LINED CHANGE OUT TRANSDUCER MWD STILL NO PULSES												3830		3830					
02:00		06:00		4.0		Trips		TRIP OUT OF HOLE DUE TO MWD TOOL FLAT LINED POOH TO BIT INSPECT BIT 1 PLUGGED JET MOTOR WAS TIGHT HARD TO DRAIN CHANGE OUT UBHO SUB MUD MOTOR& MWD TOOL MWD TOOL POPPET WAS STUCK												3830		3830					
																						</					

DRILLING REPORT

WELL: UL Fourmile 2140-17 8H				CONTRACTOR: Unit					RIG:		Unit 412	
RPT DATE: October 29, 2018				SPUD DATE:		CASING		OD	WT	GRD	MD	TVD
API #:		42-475-37653		DFS:		Surface		13-5/8	54	J-55	1,375	1,375
				REPORT NO:		4						
FIELD: Phantom (Wolfcamp)				DOL:		14						
ELEV:		RKB:		LAST BOP TEST:		10/20/18						
MD:		5,082		TVD:		5,077						
24 HR FTG:		1,252		HRS DRLG:		18		CSGHD:				

DRILLING FLUID																SHOE TEST:				
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
23:05	10.3	37.0		6	7	8.5	1	7	7	7	10	16	182,000			0.50	1,600		1.60	
												REDUCED PUMP RATES								
												PUMP		SPM		PRESS		DEPTH		
												#1								
												#2								

BIT DATA																				
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP
4		12.25		SECURITY		MM65D		13019161		8X12 TFA 1				3,830	5,082	1,252	18.0	38	120	70
3		12.25		Security		GT66MKs		13133863		15 1.035 T		N		3,205	3,830	625	9.0	35	120	69
BIT NO.	3	INNER	8	OUTER	6	DULL	DRED OL	LOC	INNER	SEAL		GAUGE	IN	OTHER	CT	RP				ROP

HYDRAULICS DATA														
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	Q2200	4.500	12.000	96	4050	750	3.84	97					
2	WEATHERFORD	Q2200	4.500	12.000	96	4050	750	3.84	97					

BHA							
DESCRIPTION:	1st Intermediate - 2						
LENGTH	1,699.04	BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.	180,000	P.U. WT.	185,000	S.O. WT.	165,000	TORQUE	14,850
TIME MADE UP	06:00	DATE MADE UP	10/28/2018	TIME PULLED		DATE PULLED	

SURVEY DATA								
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
4,780	0.52	327.42	4,775		159.7	-42.6	-1.0	0.2
4,872	1.17	280.48	4,867		160.2	-43.7		1.0
4,965	0.98	292.33	4,960		160.7	-45.4	1.5	0.3
5,012	0.87	301.69	5,007		161.0	-46.1	2.1	0.4

CONSUMABLES	DIESEL FUEL (gal) Rcvd/Used/On Hand:	DRILL H2O (gal) Rcvd/Used/On Hand:
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OPERATIONS TIME LOG

[illegible]

TOTAL HRS	24.0						
WEATHER							
GEN. CONDITIONS:	CLEAR	WIND SPEED:	5	WIND DIRECTION:	SE	TEMP:	52
COMMENTS:	Natural Gas Usage Daily: 1514.50 Total: 4496.22						
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DRILLING REPORT

WELL: UL Fourmile 2140-17 8H										CONTRACTOR: Unit										RIG: Unit 412															
RPT DATE: October 30, 2018										SPUD DATE: 10/26/18					CASING			OD	WT	GRD	MD	TVD													
API #: 42-475-37653										DFS: 4					Surface			13-5/8	54	J-55	1,375	1,375													
										REPORT NO: 5																									
FIELD: Phantom (Wolfcamp)										DOL: 15																									
ELEV:										LAST BOP TEST: 10/20/18																									
MD: 5,082										TVD: 5,078																									
24 HR FTG:										CSGHD:																									
DRILLING FLUID															SHOE TEST:																				
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)		PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP																
10:00	10.6	40.0		7	8	8.5	1	7	9	9	13	14	190,000		0.30	1,800		3.60																	
												REDUCED PUMP RATES																							
												PUMP		SPM		PRESS		DEPTH																	
												#1																							
												#2																							
BIT DATA																																			
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN		OUT		FEET		HRS		WOB		RPM		ROP									
4		12.25		SECURITY		MM65D		13019161		8X12 TFA 1				5,082		5,082						38													
3		12.25		Security		GT66MKs		13133863		15 1.035 TI		N		3,205		3,830		625		9.0		35		120		69									
BIT NO.		4		INNER		0		OUTER		3		DULL		BT		LOC		S		SEAL		X		GAUGE		I		OTHER		WT		RP		TD/CP	
HYDRAULICS DATA																																			
PUMP		MAKE				MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP		PUMP HHP					
1		WEATHERFORD				Q2200		4.500		12.000																									
2		WEATHERFORD				Q2200		4.500		12.000																									
BHA																																			
DESCRIPTION:				1st Intermediate - 2																															
LENGTH				1,699.04				BHA WT. AIR								BHA WT. MUD								HRS. ON JARS											
ROT. WT.				180,000				P.U. WT.				185,000				S.O. WT.				165,000				TORQUE				14,850							
TIME MADE UP				06:00				DATE MADE UP				10/28/2018				TIME PULLED				14:00				DATE PULLED				10/29/2018							
SURVEY DATA																																			
MD				ANGLE				AZIMUTH				TVD				N/S		COORDINATES				E/W		V. SECTION				DLS							
CONSUMABLES										DIESEL FUEL (gal) Rvcd/Used/On Hand:										DRILL H2O (gal) Rvcd/Used/On Hand:															
OPERATIONS TIME LOG																																			
FROM		TO		HRS		CODE														Start MD		End MD													
06:00		07:00		1.0		Cond Mud & Circ		Circulate sweep out to shakers clean. Building trip slug												5082		5082													
07:00		08:00		1.0		Trips		Short trip to 3800, hole good condition												5082		5082													
08:00		09:00		1.0		Cond Mud & Circ		Circulate sweep around to shakers clean. Pump trip slug												5082		5082													
09:00		11:00		2.0		Trips		Trip out to BHA. Hole good condition												5082		5082													
11:00		11:30		0.5		Other		Pull and strip off rotating head. Install trip nipple												5082		5082													
11:30		14:00		2.5		Trips		Trip out with BHA. Lay down crossovers, stabilizers, UBHO, drain motor-break bit and lay down												5082		5082													
14:00		14:30		0.5		Other		Pull wear bushing												5082		5082													
14:30		15:00		0.5		Run Csg & Cement		PJSM with Unit, Casing Specialties and Felix crews												5082		5082													
15:00		16:00		1.0		Run Csg & Cement		Rig up and function test casing running equipment												5082		5082													
16:00		20:00		4.0		Run Csg & Cement		M/U Shoe track, test foats Run 10 3/4" 45.5 ppf J-55 BTC casing to 2,815'												5082		5082													
20:00		21:00		1.0		Other		RE LEVEL RIG ,COLLARS HANGING UP IN WELL HEAD MOVE RIG CENTER CASING IN BOP COLLAR STILL WOULD NOT PASS THRU WELL HEAD WORK PIPE CIRCULATE AT 11 BARRELS PER MINUTE COLLAR PASSED THRU WELL HEAD COLLARS CON'T HITTING WELL HEAD THRU OUT CASING RUN												5082		5082													
21:00		03:00		6.0		Run Csg & Cement		CON'T RUNNING CASING WASH LAST 2 JOINTS DOWN LAY OUT TAG JOINT P/U LANDING JOINT LAND CASING IN WELL HEAD WITH 145K ON HANGER												5082		5082													
03:00		03:30		0.5		Run Csg & Cement		RIG DOWN CASING TOOLS P/U CEMENT HEAD CIRCULATE THRU CEMENT HEAD WHILE RIGGING DOWN CASING TOOLS												5082		5082													
03:30		04:30		1.0		Cond Mud & Circ		HPJSM WITH UNIT DRILLING HALLIBURTON CIRCULATE 1 1/2 TIMES CASING VOLUME @7 BARRELS PER MINUTE NO LOSSES RIG UP HALLIBURTON IRON												5082		5082													
04:30		06:00		1.5		Run Csg & Cement		CEMENT CASING WITH HALLIBURTON , Testing lines to 3000 psi. Pump 20 bbl 8.4 Gel Spacer with 2.5 lb/bbl WG-36, pump lead 385 bbl (2161.5 cu/ft) 850 sx at 11.9 ppg yield 2.531, first stage in progress at report time												5082		5082													
TOTAL HRS				24.0																															
WEATHER																																			
GEN. CONDITIONS:				CLEAR				WIND SPEED:				6				WIND DIRECTION:				SSW				TEMP:				55							
COMMENTS:				Natural Gas Usage Daily: 887.21Total: 5383.43 NOTIFIED TRRC OF CASING AND CEMENT JOB 10/29/2018 16:45 OPERATOR# ROSA																															
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DRILLING REPORT

WELL: UL Fourmile 2140-17 8H										CONTRACTOR: Unit										RIG: Unit 412																																																																															
RPT DATE: October 31, 2018										SPUD DATE: 10/26/18										CASING										OD										WT										GRD										MD										TVD																													
API #: 42-475-37653										DFS: 5										Surface										13-5/8										54										J-55										1,375										1,375																													
FIELD: Phantom (Wolfcamp)										REPORT NO: 6																																																																																									
ELEV: 5,617										RKB:										DOL: 16																																																																															
MD: 5,617										TVD: 5,612										LAST BOP TEST: 10/20/18																																																																															
24 HR FTG: 535										HRS DRLG: 4										CSGHD:																																																																															
DRILLING FLUID																									SHOE TEST:																																																																										
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP																																																																																	
23:00	9.2	28.0		1	2	10.0	1	1	1	1	3	86,000			0.30	2,920		0.30																																																																																	
REDUCED PUMP RATES																																																																																																			
PUMP										SPM										PRESS										DEPTH																																																																					
#1																																																																																																			
#2																																																																																																			
BIT DATA																																																																																																			
NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP																																																																																						
3	9.88	REED	PDC	A256201	X11 TFA.55			5,082	5,617	535	4.0	21	96	134																																																																																					
BIT NO.		INNER	OUTER	DULL	LOC	SEAL		GAUGE		OTHER	RP																																																																																								
HYDRAULICS DATA																																																																																																			
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP																																																																																					
1	WEATHERFORD	Q2200	4.500	12,000	80	3500	600	3.84	97																																																																																										
2	WEATHERFORD	Q2200	4.500	12,000	80	3500	600	3.84	97																																																																																										
BHA																																																																																																			
DESCRIPTION: 2ND INTERMEDIATE -1																																																																																																			
LENGTH	1,725.15	BHA WT. AIR			BHA WT. MUD			HRS. ON JARS																																																																																											
ROT. WT.	180,000	P.U. WT.			185,000			S.O. WT.			165,000			TORQUE			14,850																																																																																		
TIME MADE UP	18:00	DATE MADE UP			10/30/2018			TIME PULLED			DATE PULLED																																																																																								
SURVEY DATA																																																																																																			
MD	ANGLE	AZIMUTH			TVD			N/S			COORDINATES			E/W			V. SECTION			DLS																																																																															
5,178	0.96	295.18			5,173			162.2			-48.5			4.0			0.0																																																																																		
5,270	0.97	291.58			5,265			162.8			-49.9			5.3			0.1																																																																																		
5,363	0.84	298.59			5,358			163.4			-51.2			6.4			0.2																																																																																		
5,456	0.76	304.54			5,451			164.1			-52.3			7.3			0.1																																																																																		
CONSUMABLES																																																																																																			
DIESEL FUEL (gal) Rcvd/Used/On Hand:										DRILL H2O (gal) Rcvd/Used/On Hand:																																																																																									
OPERATIONS TIME LOG																																																																																																			
FROM	TO	HRS	CODE											Start MD	End MD																																																																																				
06:00	09:00	3.0	Run Csg & Cement	Testing lines to 4000 psi. Pump 10 bbl water calibrating densometer. Pump 20 bbl 8.4 Gel Spacer with 2.5 lb/bbl WG-36, pump lead 378 bbl (2122.81 cu/ft) 850 sx EconoCem Class C at 11.9 ppg yield 2.494, 14.19 gal/sx mix water (chlorides checked<200) followed by tail of 55 bbl (308.8 cu/ft) 230 sx HalCem Class C at 14.8 ppg yield 1.349, 6.25 gal/sx mix water. Displaced with 483 bbl fresh water. FCP: 1280 Bumped plug to 1745. Bleed of 3.0 bbl. Floats holding. 160 bbl pure cement to surface										5082	5082																																																																																				
09:00	12:00	3.0	Nipple Up B.O.P.	Flush BOP and flowline. Lay down landing joint. Set pack-off test to 5M. Release lock ring and pull test to 40K over block weight. Test to 5M then blow rupture disk at 12M. Test the 13 3/8 head section to 5M, good. Lay down running tool and set wear bushing.										5082	5082																																																																																				
12:00	13:00	1.0	Other	Remove BOP tension lines and position rig. Shim derrick to level										5082	5082																																																																																				
13:00	14:00	1.0	Cut off Drill Line	Cut and slip 80' drilling line.										5082	5082																																																																																				
14:00	14:30	0.5	Lubricate Rig	Rig and topdrive service										5082	5082																																																																																				
14:30	18:00	3.5	Trips	Pick up scribe and orient MWD. Make up bit and surface test directional assembly. Jet mud tanks clean filling with cut brine										5082	5082																																																																																				
18:00	21:00	3.0	Trips	Trip in with intermediate 2 directional assembly TO 4,000/PULL TRIP NIPPLE INSTALL ROTATING HEAD FILL PIPE										5082	5082																																																																																				
21:00	22:00	1.0	Other	TEST ORBIT VALVE AND ROTATING HEAD TO 300 PSI FOR 10 MIN TIGHTEN SPACER SPOOL BETWEEN ANNULAR AND ROT HEAD										5082	5082																																																																																				
22:00	23:00	1.0	Trips	TRIP IN HOLE WITH DIR ASSEMBLY TO FLOAT COLLAR TAGED CEMENT @5,021'										5082	5082																																																																																				
23:00	23:30	0.5	Other	PERFORM CASING TEST 1500 PSI F/30 MIN GOOD TEST BLEED OFF 24 PSI IN 30 MIN ON TOTCO										5082	5082																																																																																				
23:30	01:00	1.5	Repair Rig	REPLACE D 2--12" GASKET ON AIR ACTUATED VALVE FROM FLOW LINE TO GAS BUSTER										5082	5082																																																																																				
01:00	02:00	1.0	Other	DRLG CEMENT AND FLOAT EQUIPMENT TAGGED CEMENT AT 5021' FLOAT COLLAR AT 5024' SHOE AT 5067' WOB 10K GPM 525 SPP 2700 ROTARY 20 RPM TORQ 8.5-10K										5082	5082																																																																																				
02:00	06:00	4.0	Drilling	DRLG F/ 5,082' T/ 5,617 WOB 25-30K GPM 600 DIFF 350-600 SPP 3000-3500 ROTARY 50 TORQ=12-17K										5082	5617																																																																																				
TOTAL HRS														24.0																																																																																					
WEATHER																																																																																																			
GEN. CONDITIONS:										CLOUDY										WIND SPEED: 7										WIND DIRECTION: SSW										TEMP: 60																																																											
COMMENTS: Natural Gas Usage Daily: 0 Total: 5383.43																																																																																																			
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DRILLING REPORT

[illegible]



DRILLING REPORT

WELL: UL Fourmile 2140-17 8H										CONTRACTOR: Unit										RIG: Unit 412	
RPT DATE: November 2, 2018										SPUD DATE: 10/26/18					CASING		OD	WT	GRD	MD	TVD
API #: 42-475-37653										DFS: 7					Surface		13-5/8	54	J-55	1,375	1,375
FIELD: Phantom (Wolfcamp)										REPORT NO: 8											
ELEV: 8,765										DOL: 18											
MD: 8,765										LAST BOP TEST: 10/20/18											
24 HR FTG: 615										HRS DRLG: 17.5					CSGHD:						
DRILLING FLUID															SHOE TEST:						
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP			
16:00	9.3	28.0		1	1	9.5	1	1	1	1	2	85,000	0.10	0.50	17,600		0.90				
REDUCED PUMP RATES																					
PUMP										SPM		PRESS		DEPTH							
#1										50		640		6,544							
#2										50		620		6,544							
BIT DATA																					
NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP								
3	9.88	REED	PDC	A256201	X11 TFA.55		8,150	8,765	615	17.5	21	108	35								
BIT NO.	INNER	OUTER	DULL	LOC	SEAL	GAUGE	OTHER	RP													
HYDRAULICS DATA																					
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP							
1	WEATHERFORD	Q2200	4.500	12,000	83	3650	325		95												
2	WEATHERFORD	Q2200	4.500	12,000	83	3650	325		95												
BHA																					
DESCRIPTION: 2ND INTERMEDIATE -1																					
LENGTH	1,725.15	BHA WT. AIR		BHA WT. MUD		HRS. ON JARS															
ROT. WT.	280,000	P.U. WT.	320,000	S.O. WT.	260,000	TORQUE	22,000														
TIME MADE UP	18:00	DATE MADE UP	10/30/2018	TIME PULLED		DATE PULLED															
SURVEY DATA																					
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS													
8,422	1.21	352.41	8,417	167.5	-59.2	13.0	0.4														
8,515	2.08	9.58	8,510	170.1	-59.0	12.2	1.1														
8,607	2.09	0.95	8,602	173.4	-58.7	11.0	0.3														
8,698	1.50	1.00	8,693	176.3	-58.7	10.2	0.7														
CONSUMABLES																					
DIESEL FUEL (gal) Rcvd/Used/On Hand:										DRILL H2O (gal) Rcvd/Used/On Hand:											
OPERATIONS TIME LOG																					
FROM	TO	HRS	CODE		Start MD	End MD															
06:00	10:00	4.0	Drilling	DRLG F/8,150' T/8225 WOB 25-30K GPM 650 DIFF 350-600 SPP 3500-3800 ROTARY 50 TORQ 17-22K	8150	8225															
10:00	14:00	4.0	Drilling	DRLG F/ 8,225' T/8400 WOB 25-30K GPM 580 DIFF 350-600 SPP 3300-3500 ROTARY 30 TORQ 17-22K	8225	8400															
14:00	17:30	3.5	Drilling	DRLG F/ 8400' T/8,583 WOB 25-30K GPM 650 DIFF 350-600 SPP 3500-3800 ROTARY 30 TORQ 17-22K	8400	8583															
17:30	18:00	0.5	Lubricate Rig	Rig Service, Clean Pump Suction Screens	8583	8583															
18:00	00:00	6.0	Drilling	DRLG F/ 8,583' T/8,765 WOB 25-30K GPM 580 DIFF 350-600 SPP 3300-3500 ROTARY 30 TORQ 17-22K	8583	8765															
00:00	00:30	0.5	Cond Mud & Circ	PUMP SWEEP CIRCULATE HOLE CLEAN BUILD TRIP SLUG	8765	8765															
00:30	01:00	0.5	Other	ROTATING HEAD LEAKING CHANGE OUT ROTATING HEAD TO BE ABLE TO STRIP OUT TO SHOE	8765	8765															
01:00	03:30	2.5	Trips	STRIP OUT OF HOLE TO SHOE 5067"	8765	8765															
03:30	04:00	0.5	Cond Mud & Circ	SHUT IN WELL AT CASING SHOE MONITOR SHUT IN CASING PRESSURE 155 PSI SPOT 40 BARRELS 13PPG ECD PILL AT SHOE	8765	8765															
04:00	06:00	2.0	Trips	PULL ROTATING HEAD INSTALL TRIP NIPPLE TRIP OUT OF HOLE TO BHA	8765	8765															
TOTAL HRS 24.0																					
WEATHER																					
GEN. CONDITIONS: CLEAR WIND SPEED: 5 WIND DIRECTION: NW TEMP: 38																					
COMMENTS: Natural Gas Usage Daily: 2688.37 Total: 10697.4																					
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DRILLING REPORT

WELL: UL Fourmile 2140-17 8H										CONTRACTOR: Unit										RIG: Unit 412			
RPT DATE: November 3, 2018										SPUD DATE: 10/26/18					CASING			OD	WT	GRD	MD	TVD	
API #: 42-475-37653					DFS: 8					Surface			13-5/8		54	J-55	1,375	1,375					
FIELD: Phantom (Wolfcamp)										REPORT NO: 9													
ELEV:					RKB:					DOL: 19													
MD:					TVD:					LAST BOP TEST: 10/20/18													
24 HR FTG:					HRS DRLG: 12					CSGHD:													
DRILLING FLUID																		SHOE TEST:					
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP			
20:00	9.7	28.0		1	1	9.5	1	1	1	1	1	3	130,000		0.05	0.40	23,200		0.60				
												REDUCED PUMP RATES											
												PUMP			SPM			PRESS			DEPTH		
												#1											
												#2											
BIT DATA																							
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP			
4		8.75		Ulterra CF513		PDC		40362		7X9				8,765	9,200	435	12.0	25		36			
3		9.88		REED		PDC		A256201		X11 TFA.55		N		8,150	8,765	615		21	108	35			
BIT NO.	3		INNER		8		OUTER		1	DULL		CO	LOC	N	SEAL	X	GAUGE	IN	OTHER	RP	PR		
HYDRAULICS DATA																							
PUMP	MAKE			MODEL			LINER		STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP				
1	WEATHERFORD			Q2200			4.500		12.000	63	2800	250	3.84	97									
2	WEATHERFORD			Q2200			4.500		12.000	63	2800	250	3.84	97									
BHA																							
DESCRIPTION:		2ND INTERMEDIATE -2																					
LENGTH		1,515.81		BHA WT. AIR								BHA WT. MUD								HRS. ON JARS			
ROT. WT.		275,000		P.U. WT.				300,000				S.O. WT.				255,000				TORQUE		11,000	
TIME MADE UP		12:00		DATE MADE UP				11/2/2018				TIME PULLED								DATE PULLED			
SURVEY DATA																							
MD		ANGLE		AZIMUTH		TVD		N/S		COORDINATES			E/W		V. SECTION		DLS						
8,780		0.60		139.00		8,775		177.0		-58.4			9.7		2.4								
8,872		0.48		126.48		8,867		176.5		-57.8			9.3		0.2								
8,966		0.39		189.61		8,961		175.9		-57.5			9.2		0.5								
9,059		0.59		337.91		9,054		176.0		-57.7			9.4		1.0								
CONSUMABLES		DIESEL FUEL (gal) Rcvd/Used/On Hand:										DRILL H2O (gal) Rcvd/Used/On Hand:											
OPERATIONS TIME LOG																							
FROM	TO	HRS	CODE															Start MD	End MD				
06:00	08:30	2.5	Trips	Tooh, (Well not taking proper fill)														8765	8765				
08:30	10:00	1.5	Dir Work	L/d 8" tools														8765	8765				
10:00	10:30	0.5	Other	Clean and organize rig floor														8765	8765				
10:30	12:30	2.0	Dir Work	P/u 6 3/4 Directional tools, scribe, orientate and test same. Test mwd twice														8765	8765				
12:30	17:30	5.0	Trips	Tih w/ 8 3/4 Bha, fill pipe every 30 stds, re-check mwd at shoe														8765	8765				
17:30	18:00	0.5	Reaming	WASH AND REAM TO BOTTOM FAN BOTTOM ESTABLISH NEW BIT PATTERN														8765	8765				
18:00	06:00	12.0	Drilling	DRLG 8 3/4" HOLE F/ 8,765-9,200' WOB 28-32K GPM 500 DIFF 250-500 SPP 2500-3000 ROTARY 30 TORQ 11-15K														8765	9200				



DRILLING REPORT

WELL: UL Fourmile 2140-17 8H										CONTRACTOR: Unit										RIG: Unit 412	
RPT DATE: November 4, 2018										SPUD DATE: 10/26/18		CASING		OD	WT	GRD	MD	TVD			
API #: 42-475-37653										DFS: 9		Surface		13-5/8	54	J-55	1,375	1,375			
FIELD: Phantom (Wolfcamp)										REPORT NO: 10											
ELEV: RKB:										DOL: 20											
MD: TVD:										LAST BOP TEST: 10/20/18											
24 HR FTG: HRS DRLG: 10										CSGHD:											
DRILLING FLUID																SHOE TEST:					
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP			
10:00	9.7	28.0		1	1	10.0	1	1	1	1	3	130,000		0.01	0.50	2,300		0.60			
REDUCED PUMP RATES																					
PUMP																SPM	PRESS	DEPTH			
#1																50	550	9,760			
#2																50	540	9,760			
BIT DATA																					
NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP								
5	8.75	NOV	PDC	A247206	7X10		9,208	9,826	618	9.5	28	90	65								
4	8.75	Ultrerra CF513	PDC	40362	7X9	N	8,765	9,208	451	12.0	32	90	38								
BIT NO.	4	INNER	5	OUTER	2	DULL	WT-MC	LOC	N	SEAL	X	GAUGE	IN	OTHER	RP	PR					
HYDRAULICS DATA																					
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP							
1	WEATHERFORD	Q2200	4.500	12.000	64	2900	251	3.84	97												
2	WEATHERFORD	Q2200	4.500	12.000	64	2900	251	3.84	97												
BHA																					
DESCRIPTION:		2ND INTERMEDIATE -3																			
LENGTH		1,515.81		BHA WT. AIR				BHA WT. MUD				HRS. ON JARS									
ROT. WT.		280,000		P.U. WT.		315,000		S.O. WT.		260,000		TORQUE		11,000							
TIME MADE UP		14:00		DATE MADE UP		11/3/2018		TIME PULLED				DATE PULLED									
SURVEY DATA																					
MD		ANGLE		AZIMUTH		TVD		N/S		COORDINATES		E/W		V. SECTION		DLS					
9,429		2.01		357.55		9,424		185.3		-61.3		10.4		0.5							
9,522		1.37		63.13		9,517		187.5		-60.4		8.9		2.1							
9,615		1.62		40.02		9,610		189.0		-58.5		6.7		0.7							
9,707		0.50		318.59		9,701		190.3		-58.0		5.9		1.8							
CONSUMABLES																					
DIESEL FUEL (gal) Rcvd/Used/On Hand: DRILL H2O (gal) Rcvd/Used/On Hand:																					
OPERATIONS TIME LOG																					
FROM	TO	HRS	CODE											Start MD	End MD						
06:00	07:00	1.0	Drilling	DRLG 8 3/4" HOLE F/ 9,200' T/9,208' WOB 28-32K GPM 500 DIFF 250-500 SPP 2500-3000 ROTARY 30 TORQ 11-15K										9200	9208						
07:00	08:00	1.0	Cond Mud & Circ	PUMP SWEEP, CIRC, AND BUILD TRIP SLUG AND PUMP SAME										9208	9208						
08:00	13:00	5.0	Trips	TOOH F/PR, CHECK FLOW, WELL HAS FLOW, (TOOH UMP) SPOT 40 BBL ECD AT SHOE, NO FLOW										9208	9208						
13:00	14:30	1.5	Dir Work	C/O BIT, TEST MWD AND MUD MOTOR										9208	9208						
14:30	16:30	2.0	Trips	TIH, FILL PIPE EVERY 30 STDS										9208	9208						
16:30	17:00	0.5	Lubricate Rig	ROUTINE RIG SERVICE										9208	9208						
17:00	20:30	3.5	Trips	CONT. TO TIH, INSTALL ROT. HD AND FILL PIPE EVERY 30 STDS OBTAIN 3 SURCON SURVEYS										9208	9208						
20:30	21:00	0.5	Reaming	C/O ROTATING HEAD WASH LAST STANDS TO BOTTOM OBTAIN 3 SURCON SURVEYS										9208	9208						
21:00	06:00	9.0	Drilling	DRLG 8 3/4" HOLE F/ 9,208'-9,826' DAYLIGHT SAVINGS TIME ENDS CLOCKS TURNED BACK 1 HOUR @ 02:00 FOR A 25 HOUR DAY WOB 28-32K GPM 500 DIFF 250-500 SPP 2500-3000 ROTARY 30 TORQ 13-17K										9208	9826						
TOTAL HRS 24.0																					
WEATHER																					
GEN. CONDITIONS:		CLOUDY		WIND SPEED:		5		WIND DIRECTION:		N		TEMP:		43							
COMMENTS: Natural Gas Usage Daily: 686.73 Total: 11956.54																					
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DRILLING REPORT

WELL: UL Fourmile 2140-17 8H										CONTRACTOR: Unit										RIG: Unit 412															
RPT DATE: November 5, 2018										SPUD DATE: 10/26/18										CASING					OD	WT	GRD	MD	TVD						
					API #: 42-475-37653					DFS: 10					Surface					13-5/8		54	J-55	1,375	1,375										
										REPORT NO: 11																									
FIELD: Phantom (Wolfcamp)										DOL: 21																									
ELEV:					RKB:					LAST BOP TEST: 10/20/18																									
MD: 10,190					TVD: 10,184																														
24 HR FTG: 1,425					HRS DRLG: 5					CSGHD:																									
DRILLING FLUID																		SHOE TEST:																	
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP															
16:00	9.8	28.0		1	1	10.0	1	1	1	1	1	3	140,000		0.01	0.40	26,000		0.70																
												REDUCED PUMP RATES																							
												PUMP					SPM					PRESS					DEPTH								
												#1					50					550					9,760								
												#2					50					540					9,760								
BIT DATA																																			
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP															
5		8.75		NOV		PDC		A247206		7X10				9,826	10,190	364	4.0	28	90	91															
BIT NO.		5		INNER		0		OUTER		1		DULL		ct	LOC	g	SEAL	x	GAUGE	in	OTHER	wt	RP	c.p.											
HYDRAULICS DATA																																			
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP		PUMP HHP							
1		WEATHERFORD		Q2200		4.500		12.000		64		3000		500				95																	
2		WEATHERFORD		Q2200		4.500		12.000		64		3000		500				95																	
BHA																																			
DESCRIPTION:				2ND INTERMEDIATE -3																															
LENGTH				1,515.81				BHA WT. AIR								BHA WT. MUD								HRS. ON JARS											
ROT. WT.				280,000				P.U. WT.				315,000				S.O. WT.				260,000				TORQUE				11,000							
TIME MADE UP				14:00				DATE MADE UP				11/3/2018				TIME PULLED				21:30				DATE PULLED				11/4/2018							
SURVEY DATA																																			
MD				ANGLE				AZIMUTH				TVD				N/S		COORDINATES				E/W		V. SECTION				DLS							
CONSUMABLES				DIESEL FUEL (gal) Rvcd/Used/On Hand:																DRILL H2O (gal) Rvcd/Used/On Hand:															
OPERATIONS TIME LOG																																			
FROM	TO	HRS	CODE																	Start MD	End MD														
06:00	11:00	5.0	Drilling	DRLG 8 3/4" HOLE F/9,826' T/10190 WOB 28-32k GPM 500 DIFF 250-500 SPF 2500-3000 ROTARY 30 TORQ 13-17K																9826	10190														
11:00	12:30	1.5	Cond Mud & Circ	Pump 40 BBL sweep and pump to surface																10190	10190														
12:30	14:00	1.5	Trips	Short trip to 8765'																10190	10190														
14:00	16:00	2.0	Cond Mud & Circ	Pump 40 BBL sweep and pump to surface																10190	10190														
16:00	18:00	2.0	Trips	Check flow, pump trip slug, tooth to shoe under managed pressure																10190	10190														
18:00	18:30	0.5	Cond Mud & Circ	spot 40 barrels 14ppg ecd pilli at shoe																10190	10190														
18:30	20:00	1.5	Trips	trip out of hole to bha pull rotating head install trip nipple																10190	10190														
20:00	21:30	1.5	Trips	trip out of hole drain motor break bit rack back monels and thruster l/d motor pull mwd																10190	10190														
21:30	22:00	0.5	Other	clean rig floor for safety																10190	10190														
22:00	22:30	0.5	Other	pull wear bushing																10190	10190														
22:30	00:00	1.5	Run Csg & Cement	hpjsm with unit drlg casing specialties r/u casing running tools with torque turn and thread rep																10190	10190														
00:00	06:00	6.0	Run Csg & Cement	Made up 7 5/8", 29.7#, L-80 HC, ULTSF shoe track.. Check floats, tested good. Ran a total of 39 joint of ULTSF casing + XO joint =(1586.28') Ran 31 joints of 7 5/8", 29. 7, HCL-80, BTC to 3150'.																10190	10190														

DRILLING REPORT

[illegible]

DRILLING REPORT

WELL:	UL Fourmile 2140-17 8H				CONTRACTOR:	Unit					RIG:	Unit 412	
RPT DATE:	November 7, 2018				SPUD DATE:	10/26/18	CASING		OD	WT	GRD	MD	TVD
		API #:	42-475-37653		DFS:	12	Surface	13-5/8	54	J-55	1,375	1,375	
					REPORT NO:	13							
FIELD:	Phantom (Wolfcamp)				DOL:	23							
ELEV:		RKB:			LAST BOP TEST:	10/20/18							
MD:		TVD:											
24 HR FTG:		HRS DRLG:			CSGHD:								

DRILLING FLUID																SHOE TEST:				
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	9.8	28.0				10.0	1	1	1	1	1	3	140,000		0.01	0.40	26,000		0.70	
												REDUCED PUMP RATES								
												PUMP		SPM		PRESS		DEPTH		
												#1		50		550		9,760		
												#2		50		540		9,760		

BIT DATA																																			
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN		OUT		FEET		HRS		WOB		RPM		ROP									
5		8.75		NOV		PDC		A247206		7X10				9,826		10,190		364		4.0		28		90		91									
BIT NO.		5		INNER		0		OUTER		1		DULL		ct		LOC		g		SEAL		x		GAUGE		in		OTHER		wt		RP		c.p.	

[illegible]

BHA						
DESCRIPTION:	2ND INTERMEDIATE -3					
LENGTH	1,515.81	BHA WT. AIR		BHA WT. MUD		HRS. ON JARS
ROT. WT.	280,000	P.U. WT.	315,000	S.O. WT.	260,000	TORQUE
TIME MADE UP	14:00	DATE MADE UP	11/3/2018	TIME PULLED		DATE PULLED

[illegible]

CONSUMABLES	DIESEL FUEL (gal) Rcvd/Used/On Hand:	DRILL H2O (gal) Rcvd/Used/On Hand:
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OPERATIONS TIME LOG

FROM	TO	HRS	CODE		Start MD	End MD
06:00	09:30	3.5	Cond Mud & Circ	Circ through DV tool	10190	10190
09:30	12:00	2.5	Run Csg & Cement	Cement 2nd stage w/ 187 bbl/425sx 11# lead, 21 bbl/90sx 14.8# , plug bump FCP-640, plug bump 1750, floats held, 30 bbl spacer to surface,	10190	10190
12:00	14:00	2.0	Run Csg & Cement	R/d cement crew, wash out flowlines and bop w/sugar water	10190	10190
14:00	18:00	4.0	Nipple Up B.O.P.	N/D BOP, PULL SPEED HEAD AND INSTALL NIGHT CAP. RIG RELASEED @1800 HRS TO UL FOURMILE 2140-17 6H	10190	10190
TOTAL HRS		12.0				

TOTAL FINS		120					
WEATHER							
GEN. CONDITIONS:				WIND SPEED:			
				WIND DIRECTION:			
COMMENTS:							

DRILLING REPORT

WELL: UL Fourmile 2140-17 8H				CONTRACTOR: Unit				RIG: Unit 412				
RPT DATE: December 1, 2018				SPUD DATE: 10/26/18		CASING		OD	WT	GRD	MD	TVD
		API #:	42-475-37653	DFS: 36		Surface		13-5/8	54	J-55	1,375	1,375
				REPORT NO: 14								
FIELD: Phantom (Wolfcamp)				DOL: 47								
ELEV:		RKB:		LAST BOP TEST: 10/20/18								
MD:		TVD:										
24 HR FTG:		HRS DRLG:		CSGHD:								

DRILLING FLUID																SHOE TEST:				
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	9.8	28.0				10.0	1	1	1	1	3	140,000			0.01	0.40	26,000		0.70	

REDUCED PUMP RATES			
PUMP	SPM	PRESS	DEPTH
#1	50	550	9,760
#2	50	540	9,760

BIT DATA

NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN		OUT		FEET		HRS		WOB		RPM		ROP									
5		8.75		NOV		PDC		A247206		7X10				9,826		10,190		364		4.0		28		90		91									
BIT NO.		5		INNER		0		OUTER		1		DULL		ct		LOC		g		SEAL		x		GAUGE		in		OTHER		wt		RP		c.p.	

HYDRAULICS DATA

[illegible]

BHA

DESCRIPTION:	2ND INTERMEDIATE -3						
LENGTH	1,515.81	BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.	280,000	P.U. WT.	315,000	S.O. WT.	260,000	TORQUE	11,000
TIME MADE UP	14:00	DATE MADE UP	11/3/2018	TIME PULLED		DATE PULLED	

SURVEY DATA

[illegible]

CONSUMABLES

OPERATIONS TIME LOG

[illegible]

WEATHER

GEN. CONDITIONS:	Clear	WIND SPEED:	12	WIND DIRECTION:	W	TEMP:	48
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COMMENTS:

COMMENTS:	Natural Gas Usage Daily: 0Total: 12922.80
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DRILLING REPORT

WELL:	UL Fourmile 2140-17 8H				CONTRACTOR:	Unit				RIG:	Unit 412	
RPT DATE:	December 2, 2018				SPUD DATE:	10/26/18	CASING	OD	WT	GRD	MD	TVD
	API #:	42-475-37653			DFS:	37	Surface	13-5/8	54	J-55	1,375	1,375
					REPORT NO:	15						
FIELD:	Phantom (Wolfcamp)				DOL:	48						
ELEV:		RKB:			LAST BOP TEST:	12/1/18						
MD:		TVD:										
24 HR FTG:		HRS DRLG:			CSGHD:							

DRILLING FLUID																SHOE TEST:				
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
14:00	12.8	80.0	4.8	7	8		2	10	17	17	26	15					39,130	59.00	10.10	4.80
												REDUCED PUMP RATES								
												PUMP		SPM		PRESS		DEPTH		
												#1		50		550		9,760		
												#2		50		540		9,760		

BIT DATA																					
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM		ROP
6		6.75		Ultrera 713M		PDC		19890		4-12				10,190							
BIT NO.			INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP				

[illegible]

BHA							
DESCRIPTION:	Drill out bha						
LENGTH	1,515.81	BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.	280,000	P.U. WT.	315,000	S.O. WT.	260,000	TORQUE	11,000
TIME MADE UP	17:00	DATE MADE UP	12/1/2018	TIME PULLED		DATE PULLED	

[illegible]

CONSUMABLES	DIESEL FUEL (gal) Rcvd/Used/On Hand:	DRILL H2O (gal) Rcvd/Used/On Hand:
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OPERATIONS TIME LOG

[illegible]

TOTAL HRS	24.0						
WEATHER							
GEN. CONDITIONS:	CLEAR	WIND SPEED:	6	WIND DIRECTION:	WSW	TEMP:	38
COMMENTS:	Natural Gas Usage Daily: 1.84 Total: 12923.84 MUD FUEL ON HAND 8,648 GALLONS MUD FUEL RECEIVED 0						
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DRILLING REPORT

WELL: UL Fourmile 2140-17 8H										CONTRACTOR: Unit										RIG: Unit 412									
RPT DATE: December 3, 2018										SPUD DATE: 10/26/18					CASING			OD	WT	GRD	MD	TVD							
					API #:		42-475-37653			DFS: 38					Surface			13-5/8	54	J-55	1,375	1,375							
										REPORT NO: 16																			
										DOL: 49																			
FIELD: Phantom (Wolfcamp)										LAST BOP TEST: 12/3/18																			
ELEV:					RKB:																								
MD:					TVD:																								
24 HR FTG:					HRS DRLG:					8.5			CSGHD:																
DRILLING FLUID																		SHOE TEST:											
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP											
17:00	12.5	74.0	5.8	5	6		2	7	14	14	24	10				39,130	57.00	8.20	5.80										
											REDUCED PUMP RATES																		
											PUMP			SPM			PRESS			DEPTH									
											#1			50			550			9,760									
											#2			50			540			9,760									
BIT DATA																													
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP									
7		6.75		ULTERRA CF613		PDC		33138		14'S TFA 0.9				10,280															
6		6.75		Ulterra 713M		PDC		19890		4-12		N		10,190	10,280	90	2.0	25	126	45									
BIT NO.	6	INNER		0	OUTER	0	DULL	no	LOC	all	SEAL	x	GAUGE	in	OTHER	no	RP	KOP											
HYDRAULICS DATA																													
PUMP		MAKE			MODEL		LINER		STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP										
1		WEATHERFORD			Q2200		4.500		12.000																				
2		WEATHERFORD			Q2200		4.500		12.000																				
BHA																													
DESCRIPTION:			curve assembly																										
LENGTH			1,292.01			BHA WT. AIR						BHA WT. MUD						HRS. ON JARS											
ROT. WT.			280,000			P.U. WT.			315,000			S.O. WT.			260,000			TORQUE			11,000								
TIME MADE UP			02:30			DATE MADE UP			12/3/2018			TIME PULLED						DATE PULLED											
SURVEY DATA																													
MD				ANGLE			AZIMUTH			TVD			N/S	COORDINATES			E/W	V. SECTION			DLS								
CONSUMABLES				DIESEL FUEL (gal) Rcvd/Used/On Hand:										DRILL H2O (gal) Rcvd/Used/On Hand:															
OPERATIONS TIME LOG																													
FROM	TO	HRS	CODE														Start MD	End MD											
06:00	06:30	0.5	Other	Drill out Dv tool													10190	10190											
06:30	09:00	2.5	Trips	Tih to float collar													10190	10190											
09:00	09:30	0.5	Other	Casing test 1500 psi for 30 min													10190	10190											
09:30	10:30	1.0	Cut off Drill Line	Slip and cut drlg line													10190	10190											
10:30	12:00	1.5	Other	drill float and shoe track, displace w/obm													10190	10190											
12:00	13:00	1.0	Cond Mud & Circ	Drill 10' new formation, circ bha clear,Fit to 14 emw, 700 psi with 12.6+ mw													10190	10200											
13:00	14:30	1.5	Drilling	Drill f/10,200' v/ 10,280 (KOP), 260 gpm 35 rpm 25 wob													10200	10280											
14:30	21:30	7.0	Drilling	Pump trip pill, tooth f/ curve bha													10280	10280											
21:30	22:00	0.5	Test B.O.P.	pull wear bushing set test plug													10280	10280											
22:00	00:00	2.0	Test B.O.P.	Rig up testers test upper pipes lower pipes and blinds 250 low 8k high , test annular 250 low 3500 high,test all associated valves 250 low 8k high all tests 5 min													10280	10280											
00:00	01:00	1.0	Other	r/d testers install wear bushing													10280	10280											
01:00	03:00	2.0	Trips	L/D drill out motor P/U&M/U Curve Assembly ,scribe and test same													10280	10280											
03:00	06:00	3.0	Trips	TIH filling pipe every 30 stands pull trip nipple install rotating head													10280	10280											

DRILLING REPORT

WELL:	UL Fourmile 2140-17 8H				CONTRACTOR:	Unit				RIG:	Unit 412		
RPT DATE:	December 4, 2018				SPUD DATE:	10/26/18	CASING		OD	WT	GRD	MD	TVD
	API #:	42-475-37653			DFS:	39	Surface	13-5/8	54	J-55	1,375	1,375	
					REPORT NO:	17							
FIELD:	Phantom (Wolfcamp)				DOL:	50							
ELEV:		RKB:			LAST BOP TEST:	12/3/18							
MD:	11,036	TVD:		10,774									
24 HR FTG:	846	HRS DRLG:	21.5		CSGHD:								

DRILLING FLUID																SHOE TEST:				
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTH
19:00	12.6	68.0	5.6	5	6		2	6	11	12	22	11	53,217				34,000	56.00	7.90	5.60
												REDUCED PUMP RATES								
												PUMP		SPM	PRESS		DEPTH			
												#1		50	550		9,760			
												#2		50	540		9,760			

BIT DATA																				
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP
7		6.75		ULTERRA CF613		PDC		33138		14'S TFA 0.9				10,280	11,036	756	16.0	35	210	47
BIT NO.			INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP			

HYDRAULICS DATA														
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	Q2200	4.500	12.000										
2	WEATHERFORD	Q2200	4.500	12.000	79	3450	250	3.16	97	13.48				

BHA							
DESCRIPTION:	curve assembly						
LENGTH	1,292.01	BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.	280,000	P.U. WT.	315,000	S.O. WT.	260,000	TORQUE	11,000
TIME MADE UP	02:30	DATE MADE UP	12/3/2018	TIME PULLED		DATE PULLED	

SURVEY DATA									
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES		E/W	V. SECTION	DLS
10,785	50.68	258.80	10,702		125.8	-285.9		242.7	12.0
10,834	56.15	259.27	10,731		118.3	-324.5		281.9	11.2
10,882	63.71	257.56	10,755		109.9	-365.2		323.3	16.1
10,930	69.30	255.16	10,774		99.5	-407.9		367.3	12.5

CONSUMABLES	DIESEL FUEL (gal) Rvcd/Used/On Hand:	DRILL H2O (gal) Rvcd/Used/On Hand:
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OPERATIONS TIME LOG

[illegible][illegible]

WEATHER							
GEN. CONDITIONS:	CLEAR	WIND SPEED:	8	WIND DIRECTION:	ESE	TEMP:	34

COMMENTS:	Natural Gas Usage Daily: 835.33 Total: 13961.65 MUD FUEL ON HAND 5939 GALLONS MUD FUEL RECEIVED 0
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DRILLING REPORT

WELL: UL Fourmile 2140-17 8H										CONTRACTOR: Unit										RIG: Unit 412															
RPT DATE: December 5, 2018										SPUD DATE: 10/26/18					CASING			OD	WT	GRD	MD	TVD													
API #: 42-475-37653										DFS: 40					Surface			13-5/8	54	J-55	1,375	1,375													
FIELD: Phantom (Wolfcamp)										REPORT NO: 18																									
ELEV:										DOL: 51																									
MD: 11,375										LAST BOP TEST: 12/3/18																									
TVD: 10,821																																			
24 HR FTG: 339										HRS DRLG: 6					CSGHD:																				
DRILLING FLUID																				SHOE TEST:															
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)				PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP														
16:30	12.5	61.0	6.0	6	7		2	7	12	13	21	11	64,782					35,000	57.00	8.20	6.00														
												REDUCED PUMP RATES																							
												PUMP				SPM		PRESS		DEPTH															
												#1				50		550		9.760															
												#2				50		540		9.760															
BIT DATA																																			
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN		OUT		FEET		HRS		WOB		RPM		ROP									
8		6.75		SMITH (XS513)		PDC		JP1335		0 2X9 TFA.				11,375																					
7		6.75		ULTERRA CF613		PDC		33138		14'S TFA 0.9		N		11,036		11,375		339		6.0		35		210		57									
BIT NO.		7		INNER		0		OUTER		1		DULL		CT		LOC		SH		SEAL		X		GAUGE		IN		OTHER		WT		RP		BHA	
HYDRAULICS DATA																																			
PUMP		MAKE				MODEL				LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP		PUMP HHP			
1		WEATHERFORD				Q2200				4.500		12.000		80		3450		250		3.16		97													
2		WEATHERFORD				Q2200				4.500		12.000																							
BHA																																			
DESCRIPTION:				lateral bha #1																															
LENGTH				645.05				BHA WT. AIR								BHA WT. MUD								HRS. ON JARS											
ROT. WT.				280,000				P.U. WT.				315,000				S.O. WT.				260,000				TORQUE				11,000							
TIME MADE UP				23:00				DATE MADE UP				12/4/2018				TIME PULLED								DATE PULLED											
SURVEY DATA																																			
MD				ANGLE				AZIMUTH				TVD				N/S		COORDINATES				E/W		V. SECTION				DLS							
11,122				83.83				251.97				10,813				43.6		-587.1						554.9				5.1							
11,170				86.58				252.84				10,817				29.1		-632.7						602.7				6.0							
11,218				86.61				252.45				10,819				14.8		-678.5						650.6				0.8							
11,314				91.54				254.51				10,821				-12.5		-770.5						746.5				5.6							
CONSUMABLES				DIESEL FUEL (gal) Rcvd/Used/On Hand:																DRILL H2O (gal) Rcvd/Used/On Hand:															
OPERATIONS TIME LOG																																			
FROM		TO		HRS		CODE														Start MD		End MD													
06:00		12:00		6.0		Drilling		Drill curve F/11036 T/11,149 Rot. drill F/11149 T/11375 Wob- 35 Gpm- 250 SPP - 3450 Diff- 750-1250												11036		11375													
12:00		13:00		1.0		Trips		Short trip to kop												11375		11375													
13:00		14:30		1.5		Cond Mud & Circ		Circ btms up and pump trip pill												11375		11375													
14:30		21:00		6.5		Trips		Tooh for lateral bha,pull rotating head install trip nipple L/D CURVE ASSEMBLY												11375		11375													
21:00		21:30		0.5		Other		CLEAR RIG FLOOR FOR SAFETY L/D SUBS												11375		11375													
21:30		00:00		2.5		Dir Work		P/U & M/U lateral BHA, surface test MWD												11375		11375													
00:00		06:00		6.0		Trips		TRIP IN HOLE P/U DNR PULL TRIP NIPPLE INSTALL ROTATING HEAD FILL PIPE EVERY 30 STANDS OBTAIN 4 SURCON SURVEYS OUTSIDE CASING SHOE												11375		11375													

DRILLING REPORT

[illegible]

DRILLING REPORT

WELL: UL Fourmile 2140-17 8H				CONTRACTOR: Unit				RIG: Unit 412	
RPT DATE: December 7, 2018				SPUD DATE: 10/26/18		CASING		OD	WT
		API #:	42-475-37653	DFS: 42		Surface		13-5/8	54
				REPORT NO: 20		Intermediate		7-5/8	28
FIELD: Phantom (Wolfcamp)				DOL: 53				J-55	1,375
ELEV: 10,174		RKB:	10,168	LAST BOP TEST: 12/3/18				10,174	10,168
MD: 13,441		TVD:	10,810						
24 HR FTG: 1,195		HRS DRLG:	16	CSGHD: 16					

DRILLING FLUID																SHOE TEST:					
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)				PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	12.7	76.0	6.0	6	8		2	7	10	13	25	11	219,808						56.00	6.40	6.00
														REDUCED PUMP RATES							
														PUMP		SPM	PRESS	DEPTH			
														#1	50	1,660	13,348				
														#2	60	2,120	13,348				

BIT DATA																				
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP
9		6.75		REED TKC53		PDC		A257682		10/2X9 .354				12,246	13,441	1,195	16.0	25	115	75
BIT NO.			INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP			

HYDRAULICS DATA														
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	Q2200	4.000	12.000	80	4050	253	3.16	97	13.79	246	322	88	338
2	WEATHERFORD	Q2200	4.000	12.000				3.16	97					

BHA							
DESCRIPTION:	lateral bha #2						
LENGTH	644.39	BHA WT. AIR	4,823	BHA WT. MUD	4,162	HRS. ON JARS	
ROT. WT.	195,000	P.U. WT.	230,000	S.O. WT.	175,000	TORQUE	10,000
TIME MADE UP	05:00	DATE MADE UP	12/6/2018	TIME PULLED		DATE PULLED	

SURVEY DATA								
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
13,015	90.73	253.20	10,816	-497.3	-2,400.7		2,446.9	0.1
13,111	90.81	253.10	10,814	-525.1	-2,492.5		2,542.8	0.1
13,208	90.45	252.85	10,813	-553.5	-2,585.3		2,639.8	0.5
13,304	90.56	252.87	10,812	-581.8	-2,677.0		2,735.7	0.1

CONSUMABLES	DIESEL FUEL (gal) Rcvd/Used/On Hand:	DRILL H2O (gal) Rcvd/Used/On Hand:
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OPERATIONS TIME LOG

FROM	TO	HRS	CODE		Start MD	End MD
06:00	10:30	4.5	Trips	Tih to 10,100', fill pipe as needed	12246	12246
10:30	12:00	1.5	Cut off Drill Line	Cut and slip drlg line	12246	12246
12:00	14:00	2.0	Trips	Tih w/ lat. bha, get 4 surcon surveys	12246	12246
14:00	06:00	16.0	Drilling	Dir Drill F/12,246' T 13,441' Wob-20 Gpm- 253 Rpm-50-60 Torq-10k Off BTM Psi- 3345 Diff-650-800	12246	13441
TOTAL HRS		24.0				

WEATHER							
GEN. CONDITIONS:	Cloudy	WIND SPEED:	8	WIND DIRECTION:	NE	TEMP:	46
COMMENTS:	Natural Gas Usage Daily: 837.94 Total: 16763.73; Mud Fuel On Hand 2982 Gallons Mud Fuel Used 2275 gals						

DRILLING REPORT

[illegible]

DRILLING REPORT

WELL: UL Fourmile 2140-17 8H										CONTRACTOR: Unit										RIG: Unit 412									
RPT DATE: December 9, 2018										SPUD DATE: 10/26/18					CASING			OD	WT	GRD	MD	TVD							
API #: 42-475-37653										DFS: 44					Surface			13-5/8	54	J-55	1,375	1,375							
										REPORT NO: 22					Intermediate			7-5/8	28	L80	10,174	10,168							
FIELD: Phantom (Wolfcamp)										DOL: 55																			
ELEV:										LAST BOP TEST: 12/3/18																			
MD: 17,222										RKB:																			
TVD: 10,805																													
24 HR FTG: 1,772										HRS DRLG: 23.5					CSGHD:														
DRILLING FLUID																		SHOE TEST:											
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP									
20:00	12.7	61.0	5.8	7	8		2	8	13	15	20	12	35,000					57.50	6.70	5.80									
												REDUCED PUMP RATES																	
												PUMP			SPM			PRESS			DEPTH								
												#1			50			1,700			16,805								
												#2			60			2,180			16,805								
BIT DATA																													
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP									
9		6.75		REED TKC53		PDC		A257682		10/2X9 .354				15,450	17,222	1,772	23.5	25	115	75									
BIT NO.				INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP											
HYDRAULICS DATA																													
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD									
1		WEATHERFORD		Q2200		4.000		12.000												AV DP									
2		WEATHERFORD		Q2200		4.000		12.000		80		4180		253		3.16		97		13.99									
																				230									
																				322									
																				88									
																				361									
BHA																													
DESCRIPTION:				lateral bha #2																									
LENGTH				644.39				BHA WT. AIR				4,823				BHA WT. MUD				4,162				HRS. ON JARS					
ROT. WT.				195,000				P.U. WT.				245,000				S.O. WT.				175,000				TORQUE				10,000	
TIME MADE UP				05:00				DATE MADE UP				12/6/2018				TIME PULLED								DATE PULLED					
SURVEY DATA																													
MD				ANGLE				AZIMUTH				TVD				N/S		COORDINATES				E/W		V. SECTION				DLS	
16,761				90.03				253.43				10,804				-1,546.2		-5,996.1						6,191.6				0.3	
16,857				89.80				253.51				10,805				-1,573.5		-6,088.1						6,287.6				0.3	
16,953				89.78				253.38				10,805				-1,600.9		-6,180.1						6,383.5				0.1	
17,050				89.78				253.41				10,805				-1,628.6		-6,273.1						6,480.5				0.0	
CONSUMABLES				DIESEL FUEL (gal) Rcvd/Used/On Hand:								DRILL H2O (gal) Rcvd/Used/On Hand:																	
OPERATIONS TIME LOG																													
FROM		TO		HRS		CODE																Start MD		End MD					
06:00		16:30		10.5		Drilling		Dir Drill F/15,450' T/ 16,229' Wob-20 Gpm- 253 Rpm-60-70 Torq-10k Off BTM Psi- 3395 Diff-650-750														15450		16229					
16:30		17:00		0.5		Lubricate Rig		Service rig and Top Drive														16229		16229					
17:00		06:00		13.0		Drilling		Dir Drill F/16,229' T/17,222' Wob-20 Gpm- 253 Rpm-60-70 Torq-10k Off BTM Psi- 3400 Diff-650-750														16229		17222					
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DRILLING REPORT

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DRILLING REPORT

WELL: UL Fourmile 2140-17 8H										CONTRACTOR: Unit										RIG: Unit 412																																												
RPT DATE: December 12, 2018										SPUD DATE: 10/26/18										CASING				OD	WT	GRD	MD	TVD																																				
API #: 42-475-37653										DFS: 47										Surface				13-5/8	54	J-55	1,375	1,375																																				
										REPORT NO: 25										Intermediate				7-5/8	28	L80	10,174	10,168																																				
FIELD: Phantom (Wolfcamp)										DOL: 58																																																						
ELEV:										RKB:										LAST BOP TEST: 12/3/18																																												
MD: 20,549										TVD: 10,828																																																						
24 HR FTG: 1,249										HRS DRLG: 17.5										CSGHD:																																												
DRILLING FLUID																									SHOE TEST:																																							
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)				PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHR																																											
19:30	13.0	61.0	5.8	7	8		2	7	12	15	21	11	32,000						58.00	7.20	5.80																																											
												REDUCED PUMP RATES																																																				
												PUMP				SPM				PRESS				DEPTH																																								
												#1				50				1,840				18,815																																								
												#2				60				2,120				18,815																																								
BIT DATA																																																																
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN		OUT		FEET		HRS		WOB		RPM		ROP																																						
10		6.75		SMITH XS513		PDC		JN9486		5X10 .383				19,300		20,549		1,249		17.5		24		115		71																																						
BIT NO.				INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP																																														
HYDRAULICS DATA																																																																
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP	PUMP HHP																																					
1		WEATHERFORD		Q2200		4.000		12.000		79		4850		250		3.16		97		14.57		246		322		88		592																																				
2		WEATHERFORD		Q2200		4.000		12.000								3.16		97																																														
BHA																																																																
DESCRIPTION:										lateral bha #3																																																						
LENGTH										643.86										BHA WT. AIR										4,823					BHA WT. MUD										4,162					HRS. ON JARS														
ROT. WT.										180,000										P.U. WT.										255,000					S.O. WT.										100,000					TORQUE										10,000				
TIME MADE UP										00:30										DATE MADE UP										12/11/2018					TIME PULLED															DATE PULLED														
SURVEY DATA																																																																
MD					ANGLE					AZIMUTH					TVD					N/S					COORDINATES					E/W					V. SECTION					DLS																								
20,120					89.80					253.70					10,829					-2,508.1					-9,214.2					9,549.5					0.3																													
20,216					89.64					253.68					10,830					-2,535.1					-9,306.4					9,645.5					0.2																													
20,313					89.58					253.35					10,830					-2,562.6					-9,399.4					9,742.4					0.4																													
20,409					90.64					254.14					10,830					-2,589.5					-9,491.5					9,838.4					1.4																													
CONSUMABLES										DIESEL FUEL (gal) Rcvd/Used/On Hand:										DRILL H2O (gal) Rcvd/Used/On Hand:																																												
OPERATIONS TIME LOG																																																																
FROM		TO		HRS		CODE																	Start MD		End MD																																							
06:00		06:30		0.5		Cut off Drill Line		Cut and slip 84' drlg line															19300		19300																																							
06:30		11:30		5.0		Trips		Tih, fill pipe every 30 stds, get surcon surveys															19300		19300																																							
11:30		12:00		0.5		Drilling		Dir Drill F/19,300' T/19,330 Wob-18 Gpm- 253 Rpm-50 MW- 12.8 ppg Torq-13k Off BTM Psi- 4050 Diff-500															19300		19330																																							
12:00		13:00		1.0		Cond Mud & Circ		Circ through choke @slow pump rate															19330		19330																																							
13:00		06:00		17.0		Drilling		Dir Drill F/19,330' T/ 20,549' Wob-24 Gpm- 250 Rpm-60-75 MW- 12.9 ppg Torq-13k Off BTM Psi- 4053 Diff-650-800															19330		20549																																							



DRILLING REPORT

WELL: UL Fourmile 2140-17 8H										CONTRACTOR: Unit										RIG: Unit 412	
RPT DATE: December 13, 2018										SPUD DATE: 10/26/18					CASING		OD	WT	GRD	MD	TVD
API #: 42-475-37653										DFS: 48					Surface		13-5/8	54	J-55	1,375	1,375
FIELD: Phantom (Wolfcamp)										REPORT NO: 26					Intermediate		7-5/8	28	L80	10,174	10,168
ELEV: RKB:										DOL: 59											
MD: 20,693 TVD: 10,830										LAST BOP TEST: 12/3/18											
24 HR FTG: 144 HRS DRLG: 5.5										CSGHD:											
DRILLING FLUID																		SHOE TEST:			
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP			
21:00	12.9	61.0	5.6	7	8		2	8	13	16	21	11	31,000			58.40	6.70	5.60			
REDUCED PUMP RATES																					
PUMP										SPM		PRESS		DEPTH							
#1										50		2,082		20,642							
#2										60		2,740		20,642							
BIT DATA																					
NO.	SIZE		MAKE		TYPE		SER NO.	NOZZLES		RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP				
10	6.75		SMITH XS513		PDC		JN9486	5X10 .383			20,549	20,693	144	5.5	24	115	26				
BIT NO.	INNER		OUTER		DULL		LOC		SEAL	GAUGE		OTHER		RP							
HYDRAULICS DATA																					
PUMP	MAKE		MODEL		LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP					
1	WEATHERFORD		Q2200		4.000	12.000	80	4750	250	3.16	97	14.59	246	322	90	592					
2	WEATHERFORD		Q2200		4.000	12.000				3.16	97										
BHA																					
DESCRIPTION:		lateral bha #3																			
LENGTH		643.86		BHA WT. AIR		4,823		BHA WT. MUD		4,162		HRS. ON JARS									
ROT. WT.		180,000		P.U. WT.		255,000		S.O. WT.		100,000		TORQUE		10,000							
TIME MADE UP		00:30		DATE MADE UP		12/11/2018		TIME PULLED		21:00		DATE PULLED		12/12/2018							
SURVEY DATA																					
MD		ANGLE		AZIMUTH		TVD		N/S		COORDINATES		E/W		V. SECTION		DLS					
20,505		89.64		253.50		10,830		-2,616.2		-9,583.7				9,934.4		1.2					
20,601		89.94		253.80		10,830		-2,643.2		-9,675.8				10,030.4		0.4					
20,649		89.61		253.55		10,830		-2,656.7		-9,721.9				10,078.4		0.9					
CONSUMABLES																					
DIESEL FUEL (gal) Rcvd/Used/On Hand:										DRILL H2O (gal) Rcvd/Used/On Hand:											
OPERATIONS TIME LOG																					
FROM	TO	HRS	CODE											Start MD	End MD						
06:00	09:00	3.0	Drilling	Dir Drill F/20,549' T/20,593'. Wob-24 Gpm- 250 Rpm-60-75 MW- 12.9 ppg Torq-13k Off BTM Psi- 4053 Diff-650-800										20549	20593						
09:00	09:30	0.5	Lubricate Rig	Service rig and top drive.										20593	20593						
09:30	12:00	2.5	Drilling	Dir Drill F/20,549' T/20,693' (control drill f/20593-20693) Wob-15 Gpm- 250 Rpm-60-75 MW- 12.9 ppg Torq-13k Off BTM Psi- 4053 Diff-150-200										20593	20693						
12:00	15:00	3.0	Cond Mud & Circ	Circ 2 sweeps to surface, check flow										20693	20693						
15:00	18:00	3.0	Trips	Short trip to 18,500', with no problems. TIH to 20693'										20693	20693						
18:00	21:00	3.0	Cond Mud & Circ	Circ sweep to surface and spot 2# bbl beads in lateral, pump trip slug. Flow check , had 2 finger stream.										20693	20693						
21:00	01:30	4.5	Trips	Tooh to run 5.5" casing. stood back 111 stands in derrick. Note: manage pressure on back side, held 75 psi. Hole fill taking calculated fill up. Performed flow check at casing shoe, well bore static.										20693	20693						
01:30	06:00	4.5	Trips	Laid down 4.5" drill pipe f/10,174' to 5124'. Hole fill on schedule.										20963	20693						
TOTAL HRS 24.0																					
WEATHER																					
GEN. CONDITIONS:		Clear		WIND SPEED:		13		WIND DIRECTION:		WSW		TEMP:		50							
COMMENTS:		Natural Gas Usage Daily: 1590.97 Total: 24852.16 Mud Fuel On Hand 4035 Gals, Mud Fuel Received 4000																			
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DRILLING REPORT

WELL:		UL Fourmile 2140-17 8H			CONTRACTOR:				Unit			RIG:		Unit 412		
RPT DATE:		December 14, 2018			SPUD DATE:		10/26/18		CASING		OD	WT	GRD	MD	TVD	
		API #:	42-475-37653		DFS:		49		Surface		13-5/8	54	J-55	1,375	1,375	
					REPORT NO:		27		Intermediate		7-5/8	28	L80	10,174	10,168	
FIELD:		Phantom (Wolfcamp)			DOL:		60									
ELEV:			RKB:		LAST BOP TEST:		12/3/18									
MD:		20,693	TVD:	10,830												
24 HR FTG:			HRS DRLG:			CSGHD:										

DRILLING FLUID																SHOE TEST:					
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)				PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
19:00	12.9	69.0	6.0	8	7		2	8	13	15	22	10	32,000						58.40	7.00	6.00
												REDUCED PUMP RATES									
												PUMP		SPM		PRESS		DEPTH			
												#1		50		2,082		20,642			
												#2		60		2,740		20,642			

BIT DATA																						
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP		
10		6.75		SMITH XS513		PDC		JN9486		5X10 .383				20.693					24	115		
BIT NO.	10	INNER	0	OUTER	0	DULL	No	LOC	0	SEAL	X	GAUGE	In	OTHER	No	RP	TD					

HYDRAULICS DATA														
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	WEATHERFORD	Q2200	4.000	12.000				3.16	97					
2	WEATHERFORD	Q2200	4.000	12.000				3.16	97					

BHA																	
DESCRIPTION:		lateral bha #3															
LENGTH		643.86		BHA WT. AIR		4,823		BHA WT. MUD		4,162		HRS. ON JARS					
ROT. WT.		180,000		P.U. WT.		255,000		S.O. WT.		100,000		TORQUE		10,000			
TIME MADE UP		00:30		DATE MADE UP		12/11/2018		TIME PULLED		12:00		DATE PULLED		12/13/2018			

SURVEY DATA																	
MD		ANGLE		AZIMUTH		TVD		N/S		COORDINATES		E/W		V. SECTION		DLS	

CONSUMABLES		DIESEL FUEL (gal) Rcvd/Used/On Hand:										DRILL H2O (gal) Rcvd/Used/On Hand:					
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OPERATIONS TIME LOG						
FROM	TO	HRS	CODE		Start MD	End MD
06:00	11:00	5.0	Trips	L/d 4.5" dp	20693	20693
11:00	12:00	1.0	Dir Work	L/d directional tools	20693	20693
12:00	13:00	1.0	Other	Clean rig floor, pull wear bushing & change out saver sub	20693	20693
13:00	15:00	2.0	Run Csg & Cement	Hpjrm, r/u casing crew, m/u shoe track, check floats	20693	20693
15:00	06:00	15.0	Run Csg & Cement	Run 5.5" #23 Geo-conn casing to 14,130', fill pipe every 2500'. Note: circulate at 11,150'.	20693	20693

DRILLING REPORT

[illegible]

DRILLING REPORT

WELL: UL Fourmile 2140-17 8H				CONTRACTOR: Unit				RIG: Unit 412				
RPT DATE: December 16, 2018				SPUD DATE: 10/26/18		CASING		OD	WT	GRD	MD	TVD
		API #:	42-475-37653	DFS: 51		Surface		13-5/8	54	J-55	1,375	1,375
				REPORT NO: 29		Intermediate		7-5/8	28	L80	10,174	10,168
FIELD: Phantom (Wolfcamp)				DOL: 62		Production		5-1/2	23	P110	20,687	10,830
ELEV:				RKB:				LAST BOP TEST: 12/3/18				
MD:		20,693		TVD:		10,830						
24 HR FTG:				HRS DRLG:				CSGHD:				

DRILLING FLUID																SHOE TEST:				
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHF
19:00	12.9	69.0	6.0				2	9	13	16	22	10	32.000					59.40	7.90	6.00

REDUCED PUMP RATES			
PUMP	SPM	PRESS	DEPTH
#1	50	2,082	20,642
#2	60	2,740	20,642

BIT DATA																
NO.	SIZE		MAKE		TYPE		SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
BIT NO.			INNER	OUTER			DULL		LOC		SEAL	GAUGE		OTHER		RP

[illegible]

BHA						
DESCRIPTION:						
LENGTH		BHA WT. AIR		BHA WT. MUD		HRS. ON JARS
ROT. WT.		P.U. WT.		S.O. WT.		TORQUE
TIME MADE UP		DATE MADE UP		TIME PULLED		DATE PULLED

[illegible]

CONSUMABLES	DIESEL FUEL (gal) Rvcd/Used/On Hand:	DRILL H2O (gal) Rvcd/Used/On Hand:
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OPERATIONS TIME LOG

[illegible]

WEATHER							
GEN. CONDITIONS:		WIND SPEED:		WIND DIRECTION:		TEMP:	