

DRILLING REPORT

WELL: UL Urad 1609-21 1H										CONTRACTOR: Cactus										RIG: Cactus 129					
RPT DATE: June 28, 2017										SPUD DATE: 5/28/17					CASING			OD	WT	GRD	MD	TVD			
										DFS: 31					Conductor			20	94	J-55	110	110			
										REPORT NO: 32					Surface			13-3/8		55	J55	1,105	1,105		
FIELD: Phantom (Wolfcamp)										DOL: 37					Intermediate			10-3/4		46	J-55	5,090	5,065		
ELEV: 2,807		RKB:		31						LAST BOP TEST: 6/18/17					Intermediate			7-5/8		30	P110HC	11,695	11,669		
MD: 21,480		TVD: 12,149																							
24 HR FTG: 650		HRS DRLG: 23								CSGHD: 2,807															
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							
15:00	13.7	66.0		7	8		2	13	30	40	37	13	42,000			54.00	8.06	2.00							
											REDUCED PUMP RATES														
											PUMP		SPM		PRESS		DEPTH								
											#1		30		1,180		21,357								
											#2		30		1,180		21,357								
BIT DATA																									
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN		OUT		FEET	HRS	WOB	RPM	ROP			
12		6.75		Baker Hughes		TD 405 FX		7911133		5X18				20,830		21,480		650	23.0	26	245	28			
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		Gardner Denver		PXL		5.500		11.000		88		5000		290		.0784		97	15.2	272.1	191.3	9	981		
2		Gardner Denver		PXL		5.500		11.000				5000		290		.0784		97	15.2	272.1	191.3	9	981		
BHA																									
DESCRIPTION:		1.75 Deg FBH Lateral Assembly																							
LENGTH		13,735.48		BHA WT. AIR		201,907		BHA WT. MUD		161,834		HRS. ON JARS		15,000											
ROT. WT.		220,000		P.U. WT.		300,000		S.O. WT.		180,000		TORQUE		15,000											
TIME MADE UP		15:00		DATE MADE UP		6/18/2017		TIME PULLED				DATE PULLED													
SURVEY DATA																									
MD		ANGLE		AZIMUTH		TVD		N/S		COORDINATES		E/W		V. SECTION		DLS									
21,021		90.83		343.63		12,140		8,399.6		-2,328.2		8,716.2		0.8											
21,116		89.63		344.09		12,140		8,490.8		-2,354.6		8,811.2		1.4											
21,210		88.03		344.69		12,142		8,581.3		-2,379.9		8,905.2		1.8											
21,305		89.48		345.60		12,144		8,673.1		-2,404.2		9,000.2		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		14:30		8.5		Drilling		Drilled Lateral 20,830' - 21,072' (242' @ 28.47 fph) Rotate: WOB 24 * PP 5100 psi * SPM 88* GPM 289 * Diff 630 * T.D RPM 70 * TORQ 14-17K * MM RPM 245 * Total RPM 315 Slide: WOB 30 * PP 4600 psi * SPM 91 * GPM 299 * Diff 200 * MM RPM 252 Rotate Hrs: 8 Ftg: 232' Slide Hrs: 0.5 Ftg: 10' (4%)										20830		21072					
14:30		15:00		0.5		Lubricate Rig		Service Rig										21072		21072					
15:00		02:30		11.5		Drilling		Drilled Lateral 21,072' - 21,357' (285' @ 24.78 fph) Rotate: WOB 24 * PP 5150 psi * SPM 88* GPM 289 * Diff 600 * T.D RPM 70 * TORQ 14-17K * MM RPM 245 * Total RPM 315 Slide: WOB 21 * PP 4630 psi * SPM 91 * GPM 299 * Diff 200 * MM RPM 252 Rotate Hrs: 6 Ftg: 241' Slide Hrs: 6 Ftg: 44' (15%)										21072		21357					
02:30		03:00		0.5		Lubricate Rig		Service Rig										21357		21357					
03:00		06:00		3.0		Drilling		Drilled Lateral 21,357' - 21,480' (123' @ 41 fph) Rotate: WOB 24 * PP 5200 psi * SPM 88* GPM 289 * Diff 570 * T.D RPM 70 * TORQ 14-17K * MM RPM 245 * Total RPM 315 Slide: WOB 21 * PP 4630 psi * SPM 91 * GPM 299 * Diff 200 * MM RPM 252 Rotate Hrs: 3 Ftg: 123' Slide Hrs: 0 Ftg: 0 (0%)										21357		21480					