

## DRILLING REPORT

WELL: UL Urad 1609-21 1H										CONTRACTOR: Cactus										RIG: Cactus 129													
RPT DATE: June 23, 2017										SPUD DATE: 5/28/17					CASING			OD	WT	GRD	MD	TVD											
API #: 42495338430000										DFS: 26					Conductor			20	94	J-55	110	110											
FIELD: Phantom (Wolfcamp)										REPORT NO: 27					Surface			13-3/8	55	J55	1,105	1,105											
ELEV: 2,807										DOL: 32					Intermediate			10-3/4	46	J-55	5,090	5,065											
MD: 18,694										LAST BOP TEST: 6/18/17					Intermediate			7-5/8	30	P110HC	11,695	11,669											
TVD: 12,171																																	
24 HR FTG: 614										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															
14:30	13.5	64.0		5	6		2	8	20	27	29	11	52.000			54.00	7.70	2.00															
												REDUCED PUMP RATES																					
												PUMP		SPM		PRESS		DEPTH															
												#1		30		1,000		186,958															
												#2		30		1,000		18,695															
BIT DATA																																	
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN		OUT		FEET		HRS		WOB		RPM		ROP							
11		6.75		Baker Hughes		TD 405 FX		7161315		1x14, 4x16				18,080		18,694		614		23.0		30,000		235		27							
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		97		5300		319		.0768		95		14.46		272.1		297.6		22		981					
2		Gardner Denver		PXL		5.500		11.000		97		5300		319		.0768		95		14.46		272.1		297.6		22		981					
BHA																																	
DESCRIPTION:				1.50 Deg FBH Lateral Assembly																													
LENGTH				13,708.86				BHA WT. AIR				201,907				BHA WT. MUD				161,834				HRS. ON JARS									
ROT. WT.				215,000				P.U. WT.				290,000				S.O. WT.				225,000				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			
18,263				93.31				344.30				12,144				5,753.7								-1,565.4				5,962.7				1.8	
18,357				91.05				342.11				12,141				5,843.6								-1,592.6				6,056.6				3.4	
18,451				80.50				337.35				12,148				5,931.4								-1,625.0				6,149.9				12.3	
18,545				85.30				339.94				12,159				6,018.3								-1,658.9				6,242.7				5.8	
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		15:00		9.0		Drilling		Drill 6.75" Lateral Section 18,080' - 18,385' (305' @ 33.9 FPH)  Rotate: WOB 30 * PP 5600 - 5800 psi * SPM 94* GPM 310 * Diff 650 - 750 * T.D RPM 73 * TORQ 14 -18K * MM RPM 212 * Total RPM 285 Slide: WOB 25 - 50 * PP 5345 psi * SPM 105 * GPM 346 * Diff 200- 350 * MM RPM 235  Rotate Hrs: 4:55 Ftg: 261' Slide Hrs: 4:05 Ftg: 44' (48%)										18080		18385													
15:00		15:30		0.5		Lubricate Rig		Rig Service										18385		18385													
15:30		22:00		6.5		Drilling		Drill 6.75" Lateral Section 18,385' - 18,506' (121' @ 18.6 FPH)  Rotate: WOB 30 * PP 5600 - 5800 psi * SPM 94* GPM 310 * Diff 650 - 750 * T.D RPM 73 * TORQ 14 -18K * MM RPM 212 * Total RPM 285 Slide: WOB 25 - 50 * PP 5345 psi * SPM 105 * GPM 346 * Diff 200- 350 * MM RPM 235  Rotate Hrs: 2:53 Ftg: 314' Slide Hrs: 3:37 Ftg: 68' (54%)										18385		18506													
22:00		22:30		0.5		Lubricate Rig		Rig Service										18506		18506													
22:30		06:00		7.5		Drilling		Drill 6.75" Lateral Section 18,506' - 18,694' (188' @ 25 FPH)  Rotate: WOB 30 * PP 5650 psi * SPM 94* GPM 310 * Diff 400 - 600 * T.D RPM 73 * TORQ 14 -18K * MM RPM 212 * Total RPM 285 Slide: WOB 25 - 50 * PP 5170 psi * SPM 97 * GPM 329 * Diff 200- 490 * MM RPM 223  24 hr Total: Rotate Hrs: 0.5 Ftg: 49' Slide Hrs: 7 Ftg: 139' (93%)										18506		18694													