

DRILLING REPORT

WELL: UL Urad 1609-21 1H										CONTRACTOR: Cactus										RIG: Cactus 129											
RPT DATE: June 22, 2017										SPUD DATE: 5/28/17					CASING			OD	WT	GRD	MD	TVD									
API #: 42495338430000										DFS: 25					Conductor			20	94	J-55	110	110									
FIELD: Phantom (Wolfcamp)										REPORT NO: 26					Surface			13-3/8	55	J55	1,105	1,105									
ELEV: 2,807										DOL: 31					Intermediate			10-3/4	46	J-55	5,090	5,065									
MD: 18,080										LAST BOP TEST: 6/18/17					Intermediate			7-5/8	30	P110HC	11,695	11,669									
24 HR FTG: 678										HRS DRLG: 23.5					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	13.3	69.0		6	7		2	11	28	33	36	14	45,000			54.00	7.43	1.70													
												REDUCED PUMP RATES																			
												PUMP		SPM		PRESS		DEPTH													
												#1		30		1,220		18,035													
												#2		30		1,150		18,035													
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				17,402		18,080		678		23.5		30,000		235		29					
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		105		5345		346		.0768		95		14.54		272.1		400.1		22		981			
2		Gardner Denver		PXL		5.500		11.000		105		5345		346		.0768		95		14.54		272.1		400.1		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.				220,000				P.U. WT.				285,000				S.O. WT.				155,000				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	
17,700				89.97				341.56				12,157				5,218.6				-1,391.5						5,400.6				1.7	
17,793				89.57				340.92				12,158				5,306.7				-1,421.4						5,493.4				0.8	
17,888				93.64				342.60				12,155				5,396.9				-1,451.1						5,588.3				4.6	
17,981				91.79				341.44				12,151				5,485.2				-1,479.8						5,681.1				2.4	
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		14:00		8.0		Drilling		Drill 6.75" Lateral Section 17402' - 17660' (258' @ 33 FPH) Rotate: WOB 30 * PP 5200 psi * SPM 92* GPM 302 * Diff 700 - 800 * T.D RPM 60-70 * TORQ 13 -15K * MM RPM 205 * Total RPM 285 Slide: WOB 50 * PP 5200 psi * SPM 104 * GPM 342 * Diff 300 - 400 * MM RPM 232 24 hr Total: Rotate Hrs: 2 Ftg: 187' Slide Hrs: 6.0 Ftg: 71' (16%)										17402		17660											
14:00		14:30		0.5		Lubricate Rig		Rig Service										17660		17660											
14:30		18:00		3.5		Drilling		Drill 6.75" Lateral Section 17660' - 17765' (105' @ 31 FPH) Rotate: WOB 30 * PP 5200 psi * SPM 94* GPM 310 * Diff 650 - 750 * T.D RPM 75 * TORQ 13 -15K * MM RPM 210 * Total RPM 285 Slide: WOB 52 * PP 4600 psi * SPM 104 * GPM 315 * Diff 300 - 400 * MM RPM 232 24 hr Total: Rotate Hrs: 2 Ftg: 94' Slide Hrs: 2.0 Ftg: 11' (57%)										17760		17765											
18:00		06:00		12.0		Drilling		Drill 6.75" Lateral Section 17765' - 18080' (315' @ 26.25 FPH) Rotate: WOB 30 * PP 5550 psi * SPM 94* GPM 310 * Diff 650 - 750 * T.D RPM 73 * TORQ 14 -18K * MM RPM 212 * Total RPM 285 Slide: WOB 25 - 90 * PP 5345 psi * SPM 105 * GPM 346 * Diff 200- 490 * MM RPM 235 24 hr Total: Rotate Hrs: 2 Ftg: 232' Slide Hrs: 10.0 Ftg: 83' (83%)										17765		18080											