

DRILLING REPORT

WELL: UL Urad 1609-21 1H										CONTRACTOR: Cactus										RIG: Cactus 129										
RPT DATE: June 29, 2017										SPUD DATE: 5/28/17										CASING			OD	WT	GRD	MD	TVD			
API #: 42495338430000										DFS: 32										Conductor			20	94	J-55	110	110			
										REPORT NO: 33										Surface			13-3/8	55	J55	1,105	1,105			
FIELD: Phantom (Wolfcamp)										DOL: 38										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: 22,045										TVD: 12,180																				
24 HR FTG: 565										HRS DRLG: 21.5										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										
16:30	13.7	64.0		8	9		2	12	14	19	32	16	76,000					56.00	6.35	2.00										
												REDUCED PUMP RATES																		
												PUMP		SPM		PRESS		DEPTH												
												#1		30		1,260		21,922												
												#2		30		1,260		21,922												
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				21,480	22,045	565	21.5	22	246	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		Gardner Denver		PXL		5.500		11.000				5200		290	3.29	97	14.93	164.6	263.2	8.1	981									
2		Gardner Denver		PXL		5.500		11.000				5200		290	3.29	97	14.93	164.6	263.2	8.1	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.		315,000		S.O. WT.		185,000		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														
21.682		86.02		341.65		12,165		9,036.5		-2,501.9		9,376.4		3.3																
21.776		85.84		341.86		12,171		9,125.6		-2,531.2		9,470.1		0.3																
21.870		89.75		344.71		12,175		9,215.5		-2,558.2		9,564.0		5.2																
21.964		87.38		341.03		12,177		9,305.3		-2,585.9		9,657.9		4.7																
CONSUMABLES				DIESEL FUEL (gal) Rvcd/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	Drilled Lateral 21,480' - 21,732' (252' @ 24 fph) Rotate: WOB 15 * PP 5,200 psi * SPM 88* GPM 290 * Diff 500 * T.D RPM 70 * TORQ 14-17K * MM RPM 246 * Total RPM 321 Slide: WOB 21 * PP 4,630 psi * SPM 88 * GPM 290 * Diff 250 * MM RPM 246 Rotate Hrs: 6.5 Ftg: 207' Slide Hrs: 4 Ftg: 45' (18%)												21480	21732													
16:30	17:00	0.5	Lubricate Rig	Service Rig												21732	21732													
17:00	00:30	7.5	Drilling	Drilled Lateral 21,732' - 21,922' (190' @ 25 fph) Rotate: WOB 24 * PP 5,200 psi * SPM 88 * GPM 290 * Diff 550 * T.D RPM 75 * TORQ 14-17K * MM RPM 246 * Total RPM 321 Slide: WOB 21 * PP 4,630 psi * SPM 88 * GPM 290 * Diff 250 * MM RPM 246 Rotate Hrs: 3.5 Ftg: 155' Slide Hrs: 4 Ftg: 35'												21732	21922													
00:30	01:00	0.5	Lubricate Rig	Service Rig												21922	21922													
01:00	04:00	3.0	Drilling	Drilled Lateral 21,922' - 22,032' (110' @ 27 fph) Rotate: WOB 24 * PP 5,250 psi * SPM 88* GPM 290 * Diff 570 * T.D RPM 75 * TORQ 14-17K * MM RPM 246 * Total RPM 321 Slide: WOB 30 * PP 4,740 psi * SPM 88 * GPM 290 * Diff 250 * MM RPM 246 Rotate Hrs: 2.5 Ftg: 99' Slide Hrs: 0.5 Ftg: 11												21922	22032													
04:00	05:30	1.5	Repair Rig	Replace swivel packing on Top Drive *Circulate well through pump in sub * GPM 176 * SPM 56 * PSI 2,000												22032	22032													
05:30	06:00	0.5	Drilling	Drilled Lateral 22,032' - 22,045' (13' @ 26 fph) Rotate: WOB 24 * PP 5,250 psi * SPM 88* GPM 290 * Diff 570 * T.D RPM 75 * TORQ 14-17K * MM RPM 246 * Total RPM 321 Rotate Hrs: 0.5 Ftg: 13' Slide Hrs: 0 Ftg: 0												22032	2245													