



## DRILLING REPORT

WELL: UL Urad 1609-21 1H										CONTRACTOR: Cactus										RIG: Cactus 129													
RPT DATE: June 15, 2017										SPUD DATE: 5/28/17										GRD MD		TVD											
API #: 42495338430000										DFS: 18										Casing		OD		WT		J-55		110		110			
FIELD: Phantom (Wolfcamp)										REPORT NO: 19										Surface		13-3/8		55		J-55		1,105		1,105			
ELEV: 2,807										RKB: 31										DOL: 24		Intermediate		10-3/4		46		J-55		5,090		5,065	
MD: 13,177										TVD: 12,302										LAST BOP TEST: 5/29/17		Intermediate		7-5/8		30		P-110HC		11,695		11,669	
24 HR FTG: 497										HRS DRLG: 7.5										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	13.1	77.0		6	7		2	8	15	18	31	13				53.00	6.95	1.70															
REDUCED PUMP RATES																																	
PUMP SPM PRESS DEPTH																																	
#1 30 900 12,769																																	
#2 30 1,000 12,769																																	
BIT DATA																																	
NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP																				
9	6.75	HDBS	MMD64DM	12910400	6x14		12,680	13,177	497	7.5	25,000		66																				
8	6.75	Ulterra	U611S	35681	6x14	N	11,720	12,680	960	21.5	28,000	217	45																				
BIT NO.	8	INNER	1	OUTER	2	DULL	BT, WT	LOC	N, S	SEAL	N/A	GAUGE	I	OTHER	RP	BHA																	
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			3.29	97																									
2	Gardner Denver	PXL	5,500	11,000	100	5300	329	3.29	97																								
BHA																																	
DESCRIPTION:		1.75 Deg FBH Lateral Assembly																															
LENGTH		9,004.98		BHA WT. AIR		201,907		BHA WT. MUD		161,834		HRS. ON JARS																					
ROT. WT.		230,000		P.U. WT.		260,000		S.O. WT.		200,000		TORQUE																					
TIME MADE UP		12:30		DATE MADE UP		6/14/2017		TIME PULLED				DATE PULLED																					
SURVEY DATA																																	
MD		ANGLE		AZIMUTH		TVD		N/S		COORDINATES		E/W		V. SECTION		DLS																	
12,949		89.56		349.22		12,309		662.3		-87.4		661.4		2.3																			
12,995		89.75		349.15		12,309		707.5		-96.0		707.3		0.5																			
13,042		92.13		345.84		12,308		753.4		-106.2		754.2		8.7																			
13,089		92.84		344.92		12,306		798.8		-118.1		801.2		2.5																			
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	08:00	2.0	Cond Mud & Circ	Pump 30 bbl sweep - clear shakers - flow check - well static										12680	12680																		
08:00	12:30	4.5	Trips	High side motor - Plug slug & TOOH for lateral assembly * Monitor fill-ups on trip tank										12680	12680																		
12:30	14:30	2.0	Trips	Drain motor - L/D curve tools & P/U Lateral tools & 2 NM Nortrac Stabilizers - Surface test MWD - M/U bit *6.75" MMD64DM w/ 6 x 14's & 5" Sperry 6/7 Lobe 8.8 Stg 1.75 FBH 0.68 RPG Mtr										12680	12680																		
14:30	15:00	0.5	Lubricate Rig	Rig Service										12680	12680																		
15:00	21:00	6.0	Trips	TIH w/ lateral assembly to 12548' - Hit bridge										12680	12680																		
21:00	22:30	1.5	Reaming	Break circ - Wash f/ 12,548' - 12,680'										12680	12680																		
22:30	23:00	0.5	Drilling	Drill 6.75" Curve Section 12,680' - 12,710' (30' @ 60 FPH) ( LP = MD 12,710' - TVD 12,300' - 87.35 DEG - 347.35 AZ - 424' VS )  Slide: WOB 45 * PP 5000 psi * SPM 100 * GPM 329 * Diff 400 - 500 * MM RPM 223  Rotating Hrs: 0 Ftg: 0' Slide Hrs: .50 Ftg: 30'										12680	12710																		
23:00	06:00	7.0	Drilling	Drill 6.75" Lateral Section 12,710' - 13,177' (467' @ 67 FPH) (Auto Driller not working - hand drill)  Rotate: WOB 25 * PP 5300 psi * SPM 100 * GPM 329 * Diff 600 - 700 * T.D RPM 70 * TORQ 9 - 10K * MM RPM 223 * Total RPM 293  Slide: WOB 45 * PP 5000 psi * SPM 100 * GPM 329 * Diff 400 - 500 * MM RPM 223  Rotating Hrs: 6 Ftg: 427' Slide Hrs: 1 Ftg: 40'										12710	13177																		
TOTAL HRS 24.0																																	
WEATHER																																	
GEN. CONDITIONS:		Clear		WIND SPEED:		9 mph		WIND DIRECTION:		ESE		TEMP:		75																			
COMMENTS:																																	
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