DRILLING REPORT

WELL:	UL Urad 1609-21 1H		**CONTRACTOR:**	Cactus		**RIG:**	Cactus 129		
RPT DATE:	June 14, 2017		**SPUD DATE:**	5/28/17	**CASING**	**OD**	**WT**	**GRD**	**MD**	**TVD**
	API #:	42495338430000	**DFS:**	17	Conductor	20	94	J-55	110	110
			REPORT NO:	18	Surface	13-3/8	55	J55	1,105	1,105
FIELD:	Phantom (Wolfcamp)		**DOL:**	23	Intermediate	10-3/4	46	J-55	5,090	5,065
ELEV:	2,807	**RKB:** 31	**LAST BOP TEST:**	5/29/17	Intermediate	7-5/8	30	P-110HC	11,695	11,669
MD:	12,680	**TVD:** 12,296								
24 HR FTG:	960	**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	13.1	68.0		6	7		2	9 / 11 / 14	38	9						56.00	8.78	1.70

REDUCED PUMP RATES

PUMP	SPM	PRESS	DEPTH
#1	30	1,050	12,258
#2	30	1,100	12,258

BIT DATA

NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
8	6.75	Ulterra	U611S	35681	6x14		11,720	12,680	960	21.5		217	45

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										
2	Gardner Denver	PXL	5.500	11.000	84	4250	275	3.29	97	14.2	254	229	19	2000

BHA

DESCRIPTION:	2 Deg FBH Curve Assembly						
LENGTH	2,373.76	BHA WT. AIR	82,306	BHA WT. MUD	65,970	HRS. ON JARS	
ROT. WT.	235,000	P.U. WT.	270,000	S.O. WT.	205,000	TORQUE	6,500
TIME MADE UP	02:00	DATE MADE UP	6/13/2017	TIME PULLED		DATE PULLED	

SURVEY DATA

MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
12,444	54.76	344.13	12,217	192.3	30.4		177.0	3.5
12,490	56.60	342.72	12,243	228.7	19.5		215.0	4.7
12,540	61.17	343.25	12,269	269.6	7.0		257.8	9.2
12,597	75.56	343.97	12,290	320.3	-7.9		310.6	25.3

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	08:30	2.5	Trips	Finish TIH - Kelly up, B/C, & stage pumps up to drill rate	11720	11720
08:30	09:00	0.5	Drilling	Drill 6.75" vertical hole 11,720' - 11,755' *KOP (35' @ 70 FPH) Rotate: WOB 28 * PP 4,650 psi * SPM 84 * GPM 275 * Diff 500 - 600 * T.D RPM 40 * MM RPM 217 * Total RPM 257	11720	11755
09:00	06:00	21.0	Drilling	Drill 6.75" vertical hole 11,755' - 12,680' (925' @ 44 FPH) Rotate: WOB 28 * PP 4250 psi * SPM 85 * GPM 280 * Diff 450 - 600 * T.D RPM 10 * MM RPM 217 * Total RPM 227 Slide: WOB 50 * PP 4350 psi * SPM 85 * GPM 280 * Diff 500 - 600 * MM RPM 217 Rotating Hrs: 15 Ftg: 735' Slide Hrs: 6 Ftg: 225'	11755	12680

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