DRILLING REPORT

WELL:	UL Urad 1609-21 1H			CONTRACTOR:	Cactus				RIG:	Cactus 129	
RPT DATE:	June 12, 2017			SPUD DATE:	5/28/17	CASING	OD	WT	GRD	MD	TVD
		API #:	42495338430000	DFS:	15	Conductor	20	94	J-55	110	110
				REPORT NO:	16	Surface	13-3/8	55	J55	1,105	1,105
FIELD:	Phantom (Wolfcamp)			DOL:	21	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:	11,710	TVD:	11,684								
24 HR FTG:		HRS DRLG:		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
18:00	9.1	32.0		1	1	9.5	1	1	1	1	1	1	52,000		0.07	0.14			0.43	

REDUCED PUMP RATES

PUMP	SPM	PRESS	DEPTH
#1			
#2			

BIT DATA

NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP

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				3.29	97					
2	Gardner Denver	PXL	5.500	11.000	85	330	280	3.29	97					

BHA

DESCRIPTION:							
LENGTH		BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.		P.U. WT.		S.O. WT.		TORQUE	
TIME MADE UP		DATE MADE UP		TIME PULLED		DATE PULLED	

SURVEY DATA

MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS

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	13:30	7.5	Run Csg & Cement	Continue running 7-5/8" * 29.7# * P-110HC * BTC casing 2,339' - 11,658' - Wash 11,658' - 11,695' & land out Verify hanger setting with GE hand (OK) - Total Jts ran = 261 jts + Hanger, pup, & landing jt * Shoe @ 11,695' DV Tool @ 5,256' - 1 BSC every 3rd Jt to 10-3/4" csg (Total BSC = 49) No mud loss while running pipe .	11710	11710
13:30	14:00	0.5	Run Csg & Cement	R/D Frank's casing crew & CRT tool - R/U lines to standpipe	11710	11710
14:00	15:30	1.5	Cond Mud & Circ	Circ 1.5 x csg capacity	11710	11710
15:30	20:00	4.5	Cond Mud & Circ	Continue circ & wait on Schlumberger cementers - Arrived on location @ 18:00 hrs	11710	11710
20:00	23:00	3.0	Run Csg & Cement	PJSM - Swap & test lines - Mix, pump & displace Stage 1 cement job as follows: 20 bbls fresh water spacer 20 bbls Mud Push express spacer @ 10.8 ppg 342 bbls (860 sxs) Lead cement @ 11.9 ppg w/ 2.23 yld 28 bbls (101 sxs) Tail cement @ 14.8 ppg w/ 1.54 yld Drop plug & displace with 533 bbls (calculated displacement) of 9.0 ppg Brine water - Bump plug with 1,950 psi (500 psi over lift pressure) Held pressure 3 minutes & bleed off - 3 bbls back - Full returns thru-out job	11710	11710
23:00	23:30	0.5	Run Csg & Cement	Drop opening dart for Dv tool & let fall for 30 minutes. Pressure up to 850 psi & shift DV tool open - Pump 20 bbls brine with Schlumberger	11710	11710
23:30	03:00	3.5	Run Csg & Cement	Swap to rig pump & circ thru DV tool @ 300 gpm (40 bbls cement back to surface)	11710	11710
03:00	05:00	2.0	Run Csg & Cement	PJSM - Mix, pump & displace 2nd Stage cement job as follows: 20 bbls fresh water spacer 20 bbls Mud Push express spacer @ 10.8 ppg 197 bbls (514 sxs) Lead cement @ 11.9 ppg w/ 2.15 yld 12 bbls (50 sxs) Tail cement @ 14.8 ppg w/ 1.33 yld Drop closing plug & displace with 242 bbls (calculated displacement) of 9.0 ppg Brine water - Bump plug with 2,300 psi (1,400 psi over lift pressure) Held pressure 1 minute & bleed off - 2 bbls back - Full returns - No cement back .	11710	11710
05:00	05:30	0.5	Run Csg & Cement	R/D lines - Remove & L/D cement head, elevators & bails	11710	11710
05:30	06:00	0.5	Run Csg & Cement	Back-out & L/D landing Jt - M/U Pack-off running tool	11710	11710
TOTAL HRS		24.0				

WEATHER

GEN. CONDITIONS:	Clear	WIND SPEED:	9 mph	WIND DIRECTION:	SE	TEMP:	73
COMMENTS:							