



DRILLING REPORT

WELL: UL Urad 1609-21 1H				CONTRACTOR: Cactus						RIG:		Cactus 129		
RPT DATE: June 19, 2017		API #:		42495338430000		SPUD DATE: 5/28/17		CASING		OD	WT	GRD	MD	TVD
						DFS: 22		Conductor		20	94	J-55	110	110
						REPORT NO: 23		Surface		13-3/8	55	J55	1,105	1,105
FIELD: Phantom (Wolfcamp)						DOL: 28		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: 15,572		TVD:		12,250										
24 HR FTG: 449		HRS DRLG:		8		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
14:00	13.3	78.0		5	6		2	9	15	21	25	9	78,000				39,621	56.00	3.05	1.80
												REDUCED PUMP RATES								
												PUMP		SPM		PRESS		DEPTH		
												#1		30		920		15,215		
												#2		30		980		15,215		

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				15,123		15,572		449		8.0		30,000				56									
10		6.75		HDBS		MMD64DM		12908851		6x16		N		14,566		15,123		557		15.5		30,000		187		36									
BIT NO.		10		INNER		1		OUTER		3		DULL		WT		LOC		S		SEAL		N/A		GAUGE		I		OTHER		N		RP		PR	

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	92	4600	302	3.29	97	14.76	272	297	22	717		
2	Gardner Denver	PXL	5.500	11.000				3.29	97							

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.	230,000	P.U. WT.	280,000	S.O. WT.	180,000	TORQUE	13,000
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	
15,160	93.80	340.84	12,272		2,790.8	-666.3		2,867.2	3.5	
15,254	95.11	342.64	12,265		2,879.8	-695.6		2,960.8	2.4	
15,347	92.56	340.41	12,259		2,967.8	-725.0		3,053.4	3.6	
15,442	91.94	339.01	12,255		3,056.8	-757.9		3,148.0	1.6	

CONSUMABLES		DIESEL FUEL (gal) Rcvd/Used/On Hand:				DRILL H2O (gal) Rcvd/Used/On Hand:			
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OPERATIONS TIME LOG						
FROM	TO	HRS	CODE		Start MD	End MD
06:00	07:30	1.5	Trips	Pulled MWD, drained motor, broke off and graded bit. LD mtr. Pulled wear bushing.	15123	15123
07:30	11:30	4.0	Test B.O.P.	Pressure tested BOPE 250 Lo / 5000 High - 5 min each: Inside / Outside Choke Valves, Blind Rams, Kill Line, Bottom Pipe Rams, Top Pipe Rams, Bottom Pipe Rams, Top Pipe Rams, Inside/Outside KLV, HCR. Tested Annular 3500 High.	15123	15123
11:30	13:30	2.0	Dir Work	PU & TIH w/ 6/7 - 8.8 - 1.5 deg Sperry Mtr. Scribe and attempt to test MWD tool, unable to achieve test. Pulled and replaced MWD, retested. Tested good. TOH to MU bit. Unable to MU 6-3/4" 405 Baker bit because of improperly sized bit breaker. Rack back tools and begin waiting on bit breaker.	15123	15123
13:30	15:00	1.5	Other	Waited on bit breaker. Cleaned and prepared floor.	15123	15123
15:00	21:30	6.5	Trips	MU Baker 405 Bit and TIH with BHA # 12 to 14,980' - fill every 30 stds	15123	15123
21:30	22:00	0.5	Reaming	Break circ wash in 14,980' - 15,123' w/ 302 gpm & 70 rpm	15123	15123
22:00	06:00	8.0	Drilling	Drill 6.75" Lateral Section 15,123' - 15,572' (449' @ 56 FPH) Rotate: WOB 30 * PP 4600 psi * SPM 92 * GPM 302 * Diff 600 - 700 * T.D RPM 70 * TORQ 12 -14K * MM RPM 205 * Total RPM 275 Slide: WOB 45 * PP 4200 psi * SPM 92 * GPM 302 * Diff 200 - 300 * MM RPM 205 24 hr Total: Rotate Hrs: 5 Ftg: 387' Slide Hrs: 3 Ftg: 62'	15123	15572