



DRILLING REPORT

WELL: UL Urad 1609-21 1H				CONTRACTOR: Cactus					RIG:		Cactus 129			
RPT DATE: June 6, 2017		API #:		42495338430000		SPUD DATE: 5/28/17		CASING		OD	WT	GRD	MD	TVD
						DFS: 9		Conductor		20	94	J-55	110	110
						REPORT NO: 10		Surface		13-3/8	55	J55	1,105	1,105
FIELD: Phantom (Wolfcamp)						DOL: 15		Intermediate		10-3/4	46	J-55	5,090	5,065
ELEV: 2,807		RKB:		31		LAST BOP TEST: 5/29/17								
MD: 9,628		TVD:		9,602										
24 HR FTG: 258		HRS DRLG:		6.5		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
16:00	9.0	31.0		1	1	9.0	1	1	1	1	1	1	1	81,000		0.08	0.13			0.49	
												REDUCED PUMP RATES									
												PUMP		SPM		PRESS		DEPTH			
												#1		40		100		8,644			
												#2		40		70		8,644			

BIT DATA																		
NO.	SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
5	9.88		Ulterra		PDC U513S		35676		7 x 12			9,628						
4	9.88		Smith		PDC MM55DC		12917184		7 x 16		N	9,370	9,628	258	6.5	34	70	40
BIT NO.	4	INNER		3	OUTER		8	DULL	RO	LOC	S	SEAL	X	GAUGE	I	OTHER	CT	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	81	3365	267	.0784	97	9.34	270	570	138	981	
2	Gardner Denver			PXL		5,500	11,000	81	3365	267	.0784	97	9.34	270	570	138	981	

BHA																		
DESCRIPTION:		9-7/8" Intermediate 2																
LENGTH		2,121.73		BHA WT. AIR		176,550		BHA WT. MUD		165,000		HRS. ON JARS						
ROT. WT.		310,000		P.U. WT.		345,000		S.O. WT.		275,000		TORQUE		50,000				
TIME MADE UP		02:00		DATE MADE UP		6/6/2017		TIME PULLED				DATE PULLED						

SURVEY DATA																		
MD		ANGLE		AZIMUTH		TVD		N/S	COORDINATES		E/W	V. SECTION		DLS				
9,243		1.92		134.10		9,218			-237.4		190.7	-279.9		0.4				
9,337		1.48		146.50		9,312			-239.5		192.5	-282.4		0.6				
9,431		1.42		155.47		9,406			-241.6		193.7	-284.8		0.3				
9,525		1.41		142.33		9,500			-243.6		194.9	-287.0		0.3				

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	12:30	6.5	Drilling	Drill 9.875" vertical hole - Rotate 9,370' - 9,628' (258' @ 39 FPH) - "Low ROP Rotate: WOB 34 * PP 3,365 psi * SPM 243 * GPM 800 * Diff 50 - 100 T.D RPM 20 * MM RPM 70 * Total RPM 90 * Torq 16.5K *9,628' = 80% LS 10% Shale 10% Bent & Heavy trace of chert .	9370	9628
12:30	13:00	0.5	Cond Mud & Circ	Circ B/U prior to TOO H for bit due to low ROP - Flow check well & pump slug	9628	9628
13:00	17:30	4.5	Trips	TOOH 9,628' - 254' for bit due to low ROP - Monitor fill-ups on trip tank	9628	9628
17:30	18:00	0.5	Lubricate Rig	Service rig	9628	9628
18:00	18:30	0.5	Trips	Finish TOO H - Wear bushing & pack-off came out with bit *Call GE & get Tech on way	9628	9628
18:30	19:00	0.5	Trips	Break bit & M/U new Ulterra U513S bit with 7 x 12's Surface test MWD - OK	9628	9628
19:00	20:30	1.5	Cut off Drill Line	Slip & cut drill line - Set block height & check C-O-M	9628	9628
20:30	21:30	1.0	Other	Wait on GE wellhead Tech to arrive	9628	9628
21:30	00:30	3.0	Other	GE verified hanger was landed - Wash out stack & M/U pack-off on running tool - Install & test pack-off to 5,000 psi (OK) - lay down running tool	9628	9628
00:30	01:30	1.0	Other	Set wear bushing - GE verified wear bushing lock down dogs had no damage & properly ran in	9628	9628
01:30	06:00	4.5	Trips	TIH 8,500'	9628	9628