DRILLING REPORT

WELL:	UL American Basin 14-21 1H		**CONTRACTOR:**	Cactus			**RIG:**	Cactus 139	
RPT DATE:	September 9, 2017		**SPUD DATE:**	8/7/17	**CASING**	**OD**	**WT**	**GRD**	**MD**	**TVD**
	API #:	42495338760000	**DFS:**	33	Conductor	20	94	J-55	80	80
			REPORT NO:	34	Surface	13-3/8	55	J-55	1,172	1,171
FIELD:	Phantom (Wolfcamp)		**DOL:**	37	Intermediate	10-3/4	46	J-55	4,623	4,616
ELEV:		**RKB:**	**LAST BOP TEST:**	8/30/17	Intermediate 2	7-5/8	30	P-110HC	11,046	
MD:	16,828	**TVD:**	11,813							
24 HR FTG:		**HRS DRLG:**		**CSGHD:**						

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	14.2	67.0	2.0	5	6		2	8	16	15	24	8	42,000				6,000	54.00	7.07	250.00

REDUCED PUMP RATES

PUMP	SPM	PRESS	DEPTH
#1	30	1,250	16,663
#2	30	875	14,526

BIT DATA

NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
11	6.75	Smith	XR+	RJ2583 (RR)	3x20		16,828	16,828			5	0	
12	6.75	BHI	DD405T	5272541	3X16, 2X14	N	16,828	16,828		4.5	25	222	33

BIT NO.	12	INNER	0	OUTER	2	DULL	WT	LOC	S, G	SEAL	X	GAUGE	I	OTHER	CT	RP	TD

HYDRAULICS DATA

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	HHF	1600	5.000	12.000	95	2850	275	2.9106	95					1600
2	HHF	1600	5.000	12.000										

BHA

DESCRIPTION:	6.75" Lateral assembly, BHA #12, ST #2, Run #2						
LENGTH	7,251.73	BHA WT. AIR	85,000	BHA WT. MUD	68,000	HRS. ON JARS	
ROT. WT.	220,000	P.U. WT.	270,000	S.O. WT.	195,000	TORQUE	10,500
TIME MADE UP	12:00	DATE MADE UP	8/4/2017	TIME PULLED	17:30	DATE PULLED	9/8/2017

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	07:00	1.0	Cond Mud & Circ	Circulate bottoms up @ 12136'	16828	16828
07:00	09:30	2.5	Reaming	Reaming from 12136' to 12944'. Decision was made to POOH and lay out directional BHA replacing with "Dumb Iron"	16828	16828
09:30	11:00	1.5	Cond Mud & Circ	Circulate sweep around @ 12944'	16828	16828
11:00	16:00	5.0	Trips	Observe well for flow. Static. Pump slug & POOH from 12944' to BHA / Directional tools	16828	16828
16:00	17:30	1.5	Dir Work	Drain mud motor, break bit, L/D directional assembly	16828	16828
17:30	21:30	4.0	Trips	M/U bit & bit sub. TIH to 10,995', filling pipe every 30 stands	16828	16828
21:30	22:00	0.5	Other	Remove trip nipple, Install rotating head rubber Fill pipe	16828	16828
22:00	23:30	1.5	Cut off Drill Line	Slip & cut drill line, 16 wraps 10 point calibration performed	16828	16828
23:30	00:30	1.0	Trips	TIH F/10,995'-13,041' Slow down while entering sidetracks	16828	16828
00:30	03:30	3.0	Reaming	Ream F/13,041'-13,112', hole packed off at this depth Work pipe free, Ream & work stand F/13,034'-13,135' until no longer seeing torque & pressure issues	16828	16828
03:30	06:00	2.5	Reaming	Ream F/13,135'-13,508', cleaning up all tight hole when observed 275 GPM, 90 RPM, 2850 SPP	16828	16828
TOTAL HRS	**24.0**					

WEATHER

GEN. CONDITIONS:	Partly Cloudy	**WIND SPEED:**	8 MPH	**WIND DIRECTION:**	E	**TEMP:**	63
COMMENTS:	Forecast: Sun and clouds mixed. High 88F. Winds ESE at 10 to 20 mph.						