







# DRILLING REPORT

<b>WELL:</b> UL Lead King 344035-16 F 6H				<b>CONTRACTOR:</b> Capstar				<b>RIG:</b> Capstar 122				
<b>RPT DATE:</b> November 2, 2018				<b>SPUD DATE:</b> 11/1/18		<b>CASING</b>		<b>OD</b>	<b>WT</b>	<b>GRD</b>	<b>MD</b>	<b>TVD</b>
<b>API #:</b> 42-475-37683				<b>DFS:</b> 1								
				<b>REPORT NO:</b> 4								
<b>FIELD:</b> Phantom (Wolfcamp)				<b>DOL:</b> 3								
<b>ELEV:</b> 2,605		<b>RKB:</b> 13		<b>LAST BOP TEST:</b>								
<b>MD:</b> 924		<b>TVD:</b> 924										
<b>24 HR FTG:</b> 831		<b>HRS DRLG:</b> 9		<b>CSGHD:</b>								

<b>DRILLING FLUID</b>														<b>SHOE TEST:</b>							
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP			
														<b>REDUCED PUMP RATES</b>							
														PUMP		SPM		PRESS		DEPTH	
														#1							
														#2							

<b>BIT DATA</b>													
NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
1	17.50	Ulterra	CF-616	42033	6 X 16			924	924	9.0	18		103
BIT NO.	INNER	OUTER	DULL	LOC	SEAL	GAUGE	OTHER	RP					

<b>HYDRAULICS DATA</b>														
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	Gardner Denver	PZ-10	6.500	10.000	70	1050	287	4.1	95					
2	Gardner Denver	PZ-10	6.500	10.000	70	1050	287	4.1	95					

<b>BHA</b>															
<b>DESCRIPTION:</b>		17.5" surface													
<b>LENGTH</b>		673.12		<b>BHA WT. AIR</b>				<b>BHA WT. MUD</b>				<b>HRS. ON JARS</b>			
<b>ROT. WT.</b>		<b>P.U. WT.</b>				<b>S.O. WT.</b>				<b>TORQUE</b>					
<b>TIME MADE UP</b>		10:00		<b>DATE MADE UP</b>				11/1/2018				<b>TIME PULLED</b>		11/2/2018	

<b>SURVEY DATA</b>													
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS					
548	1.11	108.14	548	-2.5	10.6	9.7	0.7						
651	0.95	92.20	651	-2.9	12.4	11.3	0.3						
737	1.86	98.33	737	-3.1	14.5	13.3	1.1						
860	2.70	107.58	860	-4.3	19.2	17.7	0.7						

<b>CONSUMABLES</b>				DIESEL FUEL (gal) Rvcd/Used/On Hand:				DRILL H2O (gal) Rvcd/Used/On Hand:			
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### OPERATIONS TIME LOG

FROM	TO	HRS	CODE		Start MD	End MD
06:00	08:00	2.0	Other	Mudding up closed loop system preparing to spud.	93	93
08:00	08:30	0.5	Other	Pre spud rig inspection	93	93
08:30	11:00	2.5	Trips	Make up 17.5" 6 Blade CF616 bit w/ 6 X16's, Wenzel 9 5/8" 5/6 5.0 1.5° ABH .13 rpg motor	93	93
11:00	11:30	0.5	Lubricate Rig	Rig service.	93	93
11:30	12:30	1.0	Drilling	Drill 17.5" surface F/ 93' T/ 270' GPM=650, WOB=6k RPM=40 DIFF=270	93	270
12:30	17:30	5.0	Cond Mud & Circ	Lost circulation, pump LCM sweeps, and wait on water trucks to build volume in reserve pit.	270	270
17:30	18:00	0.5	Trips	Trip In Hole	270	270
18:00	02:00	8.0	Drilling	Drill 17.5" Surface F/ 270' T/ 924'Surface TD. GPM= 650, WOB=18, RPM65, DIFF=285, TRQ=7k, sliding as needed for Inclination. Drilling W/90% losses pumping sweeps 30lbs/bbl consisting of mica & poly seal. Sapp and soap stick in drill pipe on connections.	270	924
02:00	02:30	0.5	Cond Mud & Circ	Pump high vis sweep and Diamond seal in the shotgun tank. Circulate bottoms up obtaining returns @ 2,100 stks. Circulate hole clean.	924	924
02:30	04:00	1.5	Trips	Wiper trip back to 8" collars and build volume in reserve pit.	924	924
04:00	05:30	1.5	Cond Mud & Circ	Pump 50bbl high vis sweep with 2 shots of diamond seal in the shotgun tank, transfer 230bbl lcm blend from premix and spot on backside chase w/ drill pipe capacity to clear pipe.	924	924
05:30	06:00	0.5	Trips	Trip out to run 13 3/8" casing	924	924
<b>TOTAL HRS</b>		<b>24.0</b>				

<b>WEATHER</b>																			
<b>GEN. CONDITIONS:</b>				Clear		<b>WIND SPEED:</b>				15		<b>WIND DIRECTION:</b>		South		<b>TEMP:</b>		45	
<b>COMMENTS:</b>																			

















# DRILLING REPORT

<b>WELL:</b> UL Lead King 344035-16 F 6H				<b>CONTRACTOR:</b> Cactus				<b>RIG:</b> Cactus 137				
<b>RPT DATE:</b> December 18, 2018				<b>SPUD DATE:</b> 12/17/18		<b>CASING</b>		<b>OD</b>	<b>WT</b>	<b>GRD</b>	<b>MD</b>	<b>TVD</b>
<b>API #:</b> 42-475-37683				<b>DFS:</b> 1		Surface		13-3/8	55	J-55	924	924
<b>FIELD:</b> Phantom (Wolfcamp)				<b>REPORT NO.:</b> 7								
<b>ELEV:</b> 2,605				<b>RKB:</b> 2,630		<b>DOL:</b> 48						
<b>MD:</b> 1,551				<b>TVD:</b> 1,549		<b>LAST BOP TEST:</b> 12/17/18						
<b>24 HR FTG:</b> 627				<b>HRS DRLG:</b> 8		<b>CSGHD:</b>						

<b>DRILLING FLUID</b>														<b>SHOE TEST:</b>				
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
														<b>REDUCED PUMP RATES</b>				
														PUMP		SPM	PRESS	DEPTH
														#1				
														#2				

<b>BIT DATA</b>													
NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
1	12.25	Reed	TKC66	A249302	6x16		924	1,551	627	6.0	24	0.122	105
BIT NO.	INNER	OUTER	DULL	LOC	SEAL	GAUGE	OTHER	RP					

<b>HYDRAULICS DATA</b>														
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	HongHua	HHF-1600	5.500	12.000	100	2000	350	3.51	95					
2	HongHua	HHF-1600	5.500	12.000	100	2000	351	3.51	95					

<b>BHA</b>														
<b>DESCRIPTION:</b>		10.75" # 1 BHA												
LENGTH	1,551.00	BHA WT. AIR		BHA WT. MUD				HRS. ON JARS						
ROT. WT.	115	P.U. WT.		135				120			TORQUE			6
TIME MADE UP	13:00	DATE MADE UP		12/17/2018				TIME PULLED			DATE PULLED			

<b>SURVEY DATA</b>													
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS					
1,211	2.99	143.29	1,210	29.4	-12.3		90.0	33.2					
1,303	3.28	149.50	1,302	31.1	-16.5		92.0	36.0					
1,395	3.23	143.29	1,394	32.9	-20.8		92.0	38.9					
1,487	3.88	159.00	1,486	34.3	-25.8		92.0	41.6					

<b>CONSUMABLES</b>		DIESEL FUEL (gal) Rcvd/Used/On Hand:				DRILL H2O (gal) Rcvd/Used/On Hand:			
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<b>OPERATIONS TIME LOG</b>													
FROM	TO	HRS	CODE								Start MD	End MD	
06:00	09:00	3.0	Rig Up & Tear Down	Rig up 3" line from choke to flow line, line to trip tank and two inch bleed off line to flow line							924	924	
09:00	13:00	4.0	Trips	L/O BHA, strap and calliper							924	924	
13:00	20:00	7.0	Trips	P/U BHA, orient tools, 6- 8" collars, 15- 6" collars.							924	924	
20:00	21:00	1.0	Drilling	Drill out float equipment ( Tag FC @ 878')							924	924	
21:00	21:30	0.5	Drilling	Drill F/924' - T/941' RPM 30-40 GPM 700 WOB 15-20							924	941	
21:30	23:00	1.5	Dir Work	Trouble shoot MWD. Not getting surveys. Change out cables and transducer.							941	941	
23:00	00:00	1.0	Drilling	Drill F/941' - T/1,085' (144' @ 144 FPH) RPM 30-40 T/1,060' GPM 750 WOB 20-25							941	1085	
00:00	00:30	0.5	Dir Work	Trouble shoot MWD. Not getting surveys. Stand back two stands to shoe. Fix surface equipment							1085	1085	
00:30	06:00	5.5	Drilling	Drill F/1,085' - T/ 1,551' RPM 50-70 WOB 15-25 GPM 750 PUMP PSI 2000 TRQ 4-6							1085	1551	
<b>TOTAL HRS</b>		<b>24.0</b>											

<b>WEATHER</b>														
<b>GEN. CONDITIONS:</b>		Clear		<b>WIND SPEED:</b>		2		<b>WIND DIRECTION:</b>		E		<b>TEMP:</b>		39































