



DRILLING REPORT

WELL: UL Lead King 344035-16 G 7H				CONTRACTOR: Capstar				RIG: Capstar 122				
RPT DATE: November 16, 2018				SPUD DATE: 11/15/18		CASING		OD	WT	GRD	MD	TVD
AFE #: 4247500175D		API #: 42-475-37683		DFS: 1		Conductor		20			93	93
LEASE: 4247500175				REPORT NO: 2								
FIELD: Two Georges (Bone Spring)				DOL: 24								
ELEV: 2,605		RKB: 13		LAST BOP TEST:								
MD: 926		TVD: 925										
24 HR FTG: 926		HRS DRLG: 7.5		CSGHD:								

24 HOUR SUMMARY Skid T/ UL Lead King 7H & R/u, Spud Well, TD @ 926', Wiper Trip, C&CM, TOH & L/D Dir. Tools

PRESENT OPERATIONS R/u Csg Crew

NEXT 24 HRS Run 13 3/8 Csg, Cement CSg, Prep Rig F/ Move

DRILLING FLUID				Daily Mud Cost: \$2,580				Cum Mud Cost: \$2,580				SHOE TEST:						
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	8.4	28.0	1.0			9.0	1	1	1	1	2,000		0.10	0.20				

PRESSURE PARAMETERS				PORE PRESSURE:				REDUCED PUMP RATES															
GAS SHOWS		BG:		MAX:		REMARKS:				PUMP		SPM		PRESS		DEPTH							
		CONN:		CL:						#1													
		TRIP:		LITHOLOGY:						#2													
SHOW DEPTHS				ROP Before/During After				GAS				MUD WT.				CHLORIDES				REMARKS			

BIT DATA															
NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP		
1	17.50	Ulterra	PDC	42033	6X16		93	926	833	7.5	10	84.5	111		
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	PZ-10	6.500	10.000	80	1166	80		95						
2	Gardner Denver	PZ10	6.500	10.000	80	1166	80		95						

BHA															
DESCRIPTION:		Surface													
LENGTH		682.37		BHA WT. AIR		76,000		BHA WT. MUD		76,000		HRS. ON JARS			
ROT. WT.		85		P.U. WT.		90		S.O. WT.		80		TORQUE		10,000	
TIME MADE UP		17:00		DATE MADE UP		11/15/2018		TIME PULLED		05:30		DATE PULLED		11/16/2018	

SURVEY DATA															
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS							
661	1.89	349.97	661		11.4	0.2	3.1	0.6							
746	1.37	334.28	746		13.6	-0.5	3.1	0.8							
830	0.67	245.02	830		14.3	-1.4	2.4	1.8							
862	0.84	232.02	862		14.1	-1.8	2.0	0.8							

CONSUMABLES				DIESEL FUEL (gal) Rvcd/Used/On Hand: 0/1040/0				DRILL H2O (gal) Rvcd/Used/On Hand:					
FROM	TO	HRS	CODE	OPERATIONS								Start MD	End MD
06:00	17:30	11.5	Rig Up & Tear Down	Skid Rig to UL Lead King 7H & R/u Rig								93	93
17:30	19:30	2.0	Trips	P/u Directional Tools Tagged @ 93'								93	93
19:30	03:00	7.5	Drilling	Drig F/ 93' T/ 926(Wob 10k, Rot 75, Gpm 850, Torq 5k, Diff Psi 300, Returns 50%) Lost returns @ 200' Regained Returns @ 240' T/400', Lost return again @ 400' Regained Return @ 440' T/ 608', Lost Returns @ 608' Regained Returns @ 720' W/ 50% Returns T/ TD @ 926'								93	926
03:00	03:30	0.5	Trips	Wiper Trip T/ First DC								926	926
03:30	04:00	0.5	Cond Mud & Circ	Circ Sweep Around W/ 50% Returns								926	926
04:00	04:30	0.5	Trips	T.o.o.h T/ 518' & Spot 80 bbls N-squeeze @ 20ppb								926	926
04:30	05:00	0.5	Cond Mud & Circ	Mix & Spot 80 bbls N-squeeze @ 20ppb								926	926
05:00	06:00	1.0	Trips	T.o.h & L/d Directional Tools								926	926
TOTAL HRS		24.0											

WEATHER															
GEN. CONDITIONS:		Cool		WIND SPEED:		10		WIND DIRECTION:		North		TEMP:		36	

COMMENTS:															
COST DATA															
AFE AMT:				Daily Drig Cost:		\$37,217		Intangibles Cum:		\$175,478		Cum Well Cost:		\$175,478	
AFE TWC:				Cum Drig Cost:		\$175,478		Tangibles Cum:							
DRILLING SUPERVISOR:				Tony Nelson				RIG PHONE:				432-848-6845			
DRILLING SUPERVISOR:				Joe Casillas											



DRILLING REPORT

WELL: UL Lead King 344035-16 G 7H				CONTRACTOR: Capstar				RIG: Capstar 122	
RPT DATE: November 18, 2018				SPUD DATE: 11/15/18				CASING	
AFE #: 4247500175D		API #: 42-475-37683		DFS: 3		Conductor		OD	WT
LEASE: 4247500175				REPORT NO: 4		Surface		20	93
FIELD: Two Georges (Bone Spring)				DOL: 26				55	926
ELEV: 2,605		RKB: 13		LAST BOP TEST:					
MD: 926		TVD: 925							
24 HR FTG:		HRS DRLG:		CSGHD:					

24 HOUR SUMMARY WOC to Arrive on location till 15:00, Run CBL, TOC @ 520', Got ok F/ TRRC to top out w/1", Pumped 108 bbls of cmt, 14 bbls cmt back to surface

PRESENT OPERATIONS Waiting on Cement & Cut Csg

NEXT 24 HRS Prep to move rig

DRILLING FLUID				Daily Mud Cost: \$1,550				Cum Mud Cost: \$13,541				SHOE TEST:						
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	8.4	28.0	1.0			9.0	1	1	1	1	2,000		0.10	0.20				

PRESSURE PARAMETERS				PORE PRESSURE:				REDUCED PUMP RATES															
GAS SHOWS		BG:		MAX:		REMARKS:				PUMP		SPM		PRESS		DEPTH							
		CONN:		CL:						#1													
		TRIP:		LITHOLOGY:						#2													
SHOW DEPTHS				ROP Before/During After				GAS				MUD WT.				CHLORIDES				REMARKS			

BIT DATA													
NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
1	17.50	Ulterra	PDC	42033	6X16		93	926	833	7.5	10	84.5	111
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	PZ-10	6.500	10.000										
2	Gardner Denver	PZ10	6.500	10.000										

BHA															
DESCRIPTION:		Surface													
LENGTH		682.37		BHA WT. AIR		76,000		BHA WT. MUD		76,000		HRS. ON JARS			
ROT. WT.		85		P.U. WT.		90		S.O. WT.		80		TORQUE		10,000	
TIME MADE UP		17:00		DATE MADE UP		11/15/2018		TIME PULLED				DATE PULLED			

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

CONSUMABLES				DIESEL FUEL (gal) Rcvd/Used/On Hand: 0/177/0				DRILL H2O (gal) Rcvd/Used/On Hand:			
FROM	TO	HRS	CODE	OPERATIONS				Start MD	End MD		
06:00	15:00	9.0	Wait on Cement	Wait on Cement to arrive on location				926	926		
15:00	17:00	2.0	Wire Line Logs	Run Ves Bond Log. After running Bond Log, The log shows good cement at 520' with cement stringers up to 458' based on the amplitude. We have enough 1" and cement on location to successfully complete a competent cement job. Drilling Engineer contacted TRRC on call Engineer Matthew Bickham and emailed CBL. He gave instructions to top out with 1".				926	926		
17:00	18:00	1.0	Run Csg & Cement	Run 1" Top out pipe tagged up @ 390'				926	926		
18:00	20:00	2.0	Run Csg & Cement	Pump 82 bbls 12.8 ppg top off Cement with PNet, Did not get Cement to surface. Fluid level started at 40' down and fell out of sight with 45 bbls of cement pumped. Final fluid level after pumping cement was around 80' down.				926	926		
20:00	00:00	4.0	Wait on Cement	Wait on Cement				926	926		
00:00	02:00	2.0	Run Csg & Cement	Run in Hole W/ 1" Tagged @ 81', Pump 26 bbls of 12.8ppg yield 1.89, with PNet, and circulated 14bbls to surface.				926	926		
02:00	06:00	4.0	Wait on Cement	Wait on Cement				926	926		
TOTAL HRS									24.0		

WEATHER																	
GEN. CONDITIONS:				Cold		WIND SPEED:		5		WIND DIRECTION:		North		TEMP:		36	
COMMENTS:																	

COST DATA															
AFE AMT:				Daily Drlg Cost:		\$248,745		Intangibles Cum:		\$456,109		Cum Well Cost:		\$492,684	
AFE TWC:				Cum Drlg Cost:		\$492,684		Tangibles Cum:		\$36,575					
DRILLING SUPERVISOR:				Tony Nelson				RIG PHONE:				432-848-6845			
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