DRILLING REPORT

WELL:	UL Loveland 1920-17 7H			**CONTRACTOR:**	Cactus				**RIG:**	Cactus 138	
RPT DATE:	October 9, 2018			**SPUD DATE:**	8/23/18	**CASING**	**OD**	**WT**	**GRD**	**MD**	**TVD**
		API #:	42475375760000	**DFS:**	47	Conductor	20	94		93	93
				REPORT NO:	30	Surface	13-3/8	55	J-55	1,232	1,231
FIELD:	Phantom (Wolfcamp)			**DOL:**	54	Intermediate	10-3/4	46	J-55	5,098	5,083
ELEV:		**RKB:**		**LAST BOP TEST:**	9/24/18	Intermediate 2	7-5/8	30	HCL-80	10,258	10,240
MD:	21,685	**TVD:**	10,801								
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	12.6	70.0		6	7		2	7	12	16	22	17	48,000				22,800	55.00	5.50	5.00

REDUCED PUMP RATES

PUMP	SPM	PRESS	DEPTH
#1	30	1,365	20,861
#2	30	1,430	20,861

BIT DATA

NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP

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	HHF	1600	5.000	12.000										
2	HHF	1600	5.000	12.000										

BHA

DESCRIPTION:							
LENGTH		BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.		P.U. WT.		S.O. WT.		TORQUE	
TIME MADE UP		DATE MADE UP		TIME PULLED		DATE PULLED	

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	08:00	2.0	Run Csg & Cement	Continue rigging up casing equipment, Held PJSM w/Casing Crews, Torque Turn, Thread Rep, & Rig Crews	21685	21685
08:00	20:00	12.0	Run Csg & Cement	Make up shoe track and test floats, run in hole with 5.5' GeoCon casing to 11,200', top fill and beaking circulation every 2,500'	21685	21685
20:00	21:00	1.0	Cond Mud & Circ	Circulate B/U at 11,200' (curve landing point) 4 Bpm 1425 SPP, Circ. additional 1400 stks until gas out (10-15' Flare)	21685	21685
21:00	22:30	1.5	Run Csg & Cement	Cont. Running 5.5" 23# P-110 GeoConn Casing to 12,980'	21685	21685
22:30	23:00	0.5	Lubricate Rig	Rig Service, Circulate while working to reboot PipeCat, 3 Bpm 1350 SPP	21685	21685
23:00	06:00	7.0	Run Csg & Cement	Cont. Running 5.5" 23# P-110 GeoConn Casing to 21,200', Filling on the Fly, Break Circ. every 2500'	21685	21685
TOTAL HRS		**24.0**				

WEATHER

GEN. CONDITIONS:	Partly Cloudy	**WIND SPEED:**	5	**WIND DIRECTION:**	W	**TEMP:**	58
COMMENTS:	Forecast: Some clouds this morning will give way to generally sunny skies for the afternoon. High 77F. Winds W at 10 to 20 mph.						

DRILLING REPORT

WELL:	UL Loveland 1920-17 7H	CONTRACTOR:	Cactus	RIG:	Cactus 138
RPT DATE:	October 10, 2018	SPUD DATE:	8/23/18		
API #:	42475375760000	DFS:	48		
		REPORT NO:	31		
FIELD:	Phantom (Wolfcamp)	DOL:	55		
ELEV:		RKB:		LAST BOP TEST:	9/24/18
MD:	21,685	TVD:	10,801		
24 HR FTG:		HRS DRLG:		CSGHD:	

CASING	OD	WT	GRD	MD	TVD
Conductor	20	94		93	93
Surface	13-3/8	55	J-55	1,232	1,231
Intermediate	10-3/4	46	J-55	5,098	5,083
Intermediate 2	7-5/8	30	HCL-80	10,258	10,240
Production	5-1/2	23	P-110	21,675	10,801

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	12.6	70.0		6	7		2	7	13	15	22	17	48,000				22,800	55.00	5.50	5.00

REDUCED PUMP RATES

PUMP	SPM	PRESS	DEPTH
#1	30	1,365	20,861
#2	30	1,430	20,861

BIT DATA

NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP

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	HHF	1600	5.000	12.000										
2	HHF	1600	5.000	12.000										

BHA

DESCRIPTION:							
LENGTH		BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.		P.U. WT.		S.O. WT.		TORQUE	
TIME MADE UP		DATE MADE UP		TIME PULLED		DATE PULLED	

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	08:00	2.0	Run Csg & Cement	Run casing from 21,200' to 21,500' wash last 3 joints down and tag bottom, lay down tag joint,	21685	21685
08:00	16:00	8.0	Cond Mud & Circ	Circulate to clean hole and cir gas out, waited on clean low chloride water to mix cement with,	21685	21685
16:00	21:30	5.5	Run Csg & Cement	Hold PJSM with cement crew rig up cement lines and test lines, start cementing 5.5" casing, pump 40 BBLs tuned spacer, pump lead cement, 80 BBLs (365 Sacks) @ 14.5 PPG, pump tail, 224 BBLs (1025 Sacks) @ 15.0 PPG, Drop plug, clean lines and pump 20 BBLs fresh water, start displacement with inhibited water, 438 BBLs, FCP 4,950 psi, bumped plugged to 5770 psi, bled off psi and had 8 BBLs back to surface and floats held,	21685	21685
21:30	22:30	1.0	Run Csg & Cement	Rig down Halliburton equipment and black hawk cementing tool,	21685	21685
22:30	05:00	6.5	Other	Clean up floor, transferring mud out of pits, laying down pipe out of derrick, start taking apart flow line, start cleaning pit with Top Tool cleaners, Note: Wellbore Shut In, Casing Psi built up to 285 psi before started decreasing, Bled Psi off backside & Close back in, Monitor for additional 30 min. (No Psi Built)	21685	21685
05:00	06:00	1.0	Nipple Up B.O.P.	Begin Nipple Down BOP	21685	21685
TOTAL HRS		**24.0**				

WEATHER

GEN. CONDITIONS:	Clear	WIND SPEED:	3	WIND DIRECTION:	NE	TEMP:	52
COMMENTS:	Forecast: Sunny. High 77F. Winds ESE at 5 to 10 mph.						

DRILLING REPORT

WELL:	UL Loveland 1920-17 7H		**CONTRACTOR:**				**RIG:**		
RPT DATE:	October 11, 2018		**SPUD DATE:**	8/23/18	**CASING**	**OD**	**WT**	**GRD**	**MD**	**TVD**
	API #:	42475375760000	**DFS:**	49	Conductor	20	94		93	93
			REPORT NO:	32	Surface	13-3/8	55	J-55	1,232	1,231
FIELD:	Phantom (Wolfcamp)		**DOL:**	56	Intermediate	10-3/4	46	J-55	5,098	5,083
ELEV:		**RKB:**	**LAST BOP TEST:**	9/24/18	Intermediate 2	7-5/8	30	HCL-80	10,258	10,240
MD:		**TVD:**			Production	5-1/2	23	P-110	21,675	10,801
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	12.6	70.0					2	7	13	15	22	17	48,000				22,800	55.00	5.50	5.00

REDUCED PUMP RATES

PUMP	SPM	PRESS	DEPTH
#1	30	1,365	20,861
#2	30	1,430	20,861

BIT DATA

NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP

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	HHF	1600	5.000	12.000										
2	HHF	1600	5.000	12.000										

BHA

DESCRIPTION:							
LENGTH		BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.		P.U. WT.		S.O. WT.		TORQUE	
TIME MADE UP		DATE MADE UP		TIME PULLED		DATE PULLED	

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	09:00	3.0	Nipple Up B.O.P.	Continue Nipple Down BOP's with BOP Ram.	21685	21685
09:00	10:00	1.0	Other	Set casing slips with 175K on string weight, rough cut casing, L/D casing joint install packoff.	21685	21685
10:00	12:00	2.0	Nipple Up B.O.P.	Open BOP Ram doors and remove pipe and blind rams for annual inspection per drilling contractor.	21685	21685
12:00	18:00	6.0	Trips	Lay down pipe out of derrick in mousehole. Off Line: Crane working on tenderizing back yard and getting ready to move, remove pit roofs, rig down and move centerfuge equipment, lay down bar hoppers.	21685	21685
18:00	20:00	2.0	Nipple Up B.O.P.	Pick up BOP Stack and make final cut. Install Tubing Head and test to 10,000 psi for 15 minutes - Test Good. Rig Release off UL Loveland 1920-17 7H @ 20:00 hrs. Transfer to UL Fourmile 2140-17 9H: Rig Fuel - 3,961 Gal, Mud Fuel - 332 Gal, OBM - 1870 bbls, Brine - 570 bbls.	21685	21685
20:00	06:00	10.0	Rig Up & Tear Down	Rig down Top -Drive, Service Loop, Kelly Hose, and Stand Pipe. Dock Top-Drive and Blocks in Derrick. Rig Down Floor and Pipe Cat. Remove Flowline, Rotating Head, and Stairs to pits. Cut and slip 120' of drilling line.	21685	21685
TOTAL HRS		**24.0**				

WEATHER

GEN. CONDITIONS:	Partly Cloudy	**WIND SPEED:**	10	**WIND DIRECTION:**	E	**TEMP:**	59
COMMENTS:							