

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H										CONTRACTOR: Cactus										RIG: Cactus 137														
RPT DATE: April 7, 2017										SPUD DATE: 3/12/17										CASING				OD	WT	GRD	MD	TVD						
API #: 42475372040000										DFS: 26										Conductor				20			102	102						
										REPORT NO: 27										Surface				13-3/8	55	J55	1,208	1,208						
FIELD: Phantom (Wolfcamp)										DOL: 28										Intermediate				10-3/4	46	J55	5,008	4,995						
ELEV: 2,656										RKB: 25										LAST BOP TEST: 4/2/17														
MD: 13,582										TVD: 11,169																								
24 HR FTG: 471										HRS DRLG: 11										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	12.3	52.0		5	6		3	6	10	10	17	7	39,000		3,000	62.50	11.96	2.00																
										REDUCED PUMP RATES																								
										PUMP		SPM		PRESS		DEPTH																		
										#1		40		1,104		13,357																		
										#2		40		980		13,357																		
BIT DATA																																		
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP														
14		6.75		Security		MD64DM		12851375		6x14				13,185	13,582	397	8.5	15	210	47														
13		6.75		Smith		MDI613LUEPXG		JM6071		6x14		N		13,111	13,185	74	2.5	25	207	30														
BIT NO.		13		INNER		1		OUTER		3		DULL		WT	LOC	SH	SEAL	N/A	GAUGE	IN	OTHER	NO	RP	ROP										
HYDRAULICS DATA																																		
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP		PUMP HHP						
1		Hong Hua		HHF 1600		6.000		12.000		52		4200		300		2.906		95		13.27														
2		Hong Hua		HHF 1600		6.000		12.000		52		4200		300		2.906		95		13.27														
BHA																																		
DESCRIPTION:				Curve																														
LENGTH				13,185.00				BHA WT. AIR				205,000				BHA WT. MUD				269,000				HRS. ON JARS										
ROT. WT.				220,000				P.U. WT.				280,000				S.O. WT.				180,000				TORQUE				12						
TIME MADE UP				15:30				DATE MADE UP				4/6/2017				TIME PULLED								DATE PULLED										
SURVEY DATA																																		
MD				ANGLE				AZIMUTH				TVD				N/S		COORDINATES				E/W		V. SECTION				DLS						
13,213				92.60				165.70				11,169				-2,141.8		870.6				2,300.0		4.4										
13,306				89.20				163.00				11,167				-2,231.3		895.7				2,392.9		4.7										
13,400				88.50				161.60				11,169				-2,320.8		924.2				2,486.9		1.7										
13,494				90.50				162.00				11,170				-2,410.1		953.6				2,580.8		2.2										
CONSUMABLES						DIESEL FUEL (gal) Rcvd/Used/On Hand:														DRILL H2O (gal) Rcvd/Used/On Hand:														
OPERATIONS TIME LOG																																		
FROM	TO	HRS	CODE															Start MD	End MD															
06:00	08:30	2.5	Drilling	Rot/slide 13,111'- 13,185' (74'@30 fph, 4400 psi,700 diff,20 wob,70 rot, 207 bit rpm, 300 gpm														13111	13185															
08:30	10:00	1.5	Cond Mud & Circ	Lost ROP, Circulate BTM's up, while building slug, work pipe, check for flow, pump slug														13185	13185															
10:00	21:00	11.0	Trips	TOOH to swap out Bit/Motor,L/D monel drain motor,break bit and lay down the same.Pick up bit new motor and C/O sleeve to slick.Scribe and test MWD. TIH T/13155'.														13185	13185															
21:00	22:00	1.0	Drilling	W/R to bottom.Drill as per well plan F/13185' T/13192.														13185	13192															
22:00	22:30	0.5	Cond Mud & Circ	Shut in well,no psi on backside,Circulate B/U gas through choke,shut down pumps open up well and check flow.														13192	13192															
22:30	06:00	7.5	Drilling	Drill as per well plan F/13192' T/13582 Rot-75 BIT RPM- 210 GPM-300 PSI- 4500 WOB-15/25 DIFF- 460														13192	13582															
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DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus					RIG: Cactus 137			
RPT DATE: April 8, 2017				SPUD DATE: 3/12/17		CASING		OD	WT	GRD	MD	TVD
		API #:		42475372040000		DFS: 27		Conductor		20	102	102
				REPORT NO: 28		Surface		13-3/8	55	J55	1,208	1,208
FIELD: Phantom (Wolfcamp)				DOL: 29		Intermediate		10-3/4	46	J55	5,008	4,995
ELEV:		2,656		RKB:		25		LAST BOP TEST: 4/2/17				
MD:		14,232		TVD:		11,154						
24 HR FTG:		650		HRS DRLG:		13.5		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	53.0		5	6		3	7	12	13	17	7	36,000				22,000	61.00	11.96	2.00

REDUCED PUMP RATES			
PUMP	SPM	PRESS	DEPTH
#1	40	1,104	14,100
#2	40	980	14,100

BIT DATA																				
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP
15		6.75		Ulterra		U613M		24913		6-14				14,232						
14		6.75		Security		MD64DM		12851375		6x14		N		13,185 14,232		1,047 21.0		15		210 50
BIT NO.	14	INNER	1	OUTER	2	DULL	1	LOC		SEAL		GAUGE			OTHER			RP	ROP	

HYDRAULICS DATA														
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	Hong Hua	HHF 1600	6.000	12.000	50	4100	300	2.906	95	13.62	287.9	448	26.5	845
2	Hong Hua	HHF 1600	6.000	12.000	50	4100	300	2.906	95	13.62	288	448	26.5	845

BHA							
DESCRIPTION:	Lateral						
LENGTH	13,185.00	BHA WT. AIR	205,000	BHA WT. MUD	269,000	HRS. ON JARS	
ROT. WT.	220,000	P.U. WT.	280,000	S.O. WT.	180,000	TORQUE	12
TIME MADE UP	02:30	DATE MADE UP	4/8/2017	TIME PULLED		DATE PULLED	

SURVEY DATA								
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
13,840	94.80	169.20	11,159	-2,744.6	1,039.3		2,925.9	2.6
13,962	88.40	167.10	11,156	-2,863.9	1,064.4		3,047.5	5.5
14,055	89.10	169.50	11,158	-2,955.0	1,083.2		3,140.1	2.7
14,149	92.50	175.00	11,157	-3,048.0	1,095.9		3,233.0	6.9

CONSUMABLES	DIESEL FUEL (gal) Rcvd/Used/On Hand:	DRILL H2O (gal) Rcvd/Used/On Hand:
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OPERATIONS TIME LOG

[illegible]

TOTAL HRS	24.0
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WEATHER							
GEN. CONDITIONS:	53	WIND SPEED:	Calm	WIND DIRECTION:		TEMP:	53

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus				RIG: Cactus 137				
RPT DATE: April 9, 2017				SPUD DATE: 3/12/17		CASING		OD	WT	GRD	MD	TVD
		API #:	42475372040000	DFS: 28		Conductor		20			102	102
				REPORT NO: 29		Surface		13-3/8	55	J55	1,208	1,208
FIELD: Phantom (Wolfcamp)				DOL: 30		Intermediate		10-3/4	46	J55	5,008	4,995
ELEV: 2,656		RKB:	25	LAST BOP TEST: 4/2/17								
MD: 15,100		TVD:	11,176									
24 HR FTG: 868		HRS DRLG:	20	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	HTHF
18:00	12.6	58.0		5	6		3	8	13	14	18	7	33.000				22.000	61.50	12.36	2.00

REDUCED PUMP RATES			
PUMP	SPM	PRESS	DEPTH
#1	40	1,104	14,100
#2	40	980	14,100

BIT DATA

BIT DATA													
NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
15	6.75	Ulterra	U613M	24913	6-14		14,232						
BIT NO.		INNER	OUTER	DULL	LOC	SEAL	GAUGE	OTHER	RP				

HYDRAULICS DATA

[illegible]

BHA

DESCRIPTION:	Lateral						
LENGTH	7,565.54	BHA WT. AIR	205,000	BHA WT. MUD	269,000	HRS. ON JARS	
ROT. WT.	220,000	P.U. WT.	280,000	S.O. WT.	180,000	TORQUE	12
TIME MADE UP	02:30	DATE MADE UP	4/8/2017	TIME PULLED		DATE PULLED	

SURVEY DATA

MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
14,713	89.60	160.80	11,170	-3,595.5	1,221.1		3,793.6	2.3
14,807	88.70	161.50	11,171	-3,684.4	1,251.4		3,887.5	1.2
14,900	87.80	156.70	11,174	-3,771.3	1,284.6		3,980.1	5.3
14,994	89.40	156.90	11,176	-3,857.6	1,321.6		4,073.4	1.7

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	09:30	3.5	Trips	TIH 5,970' - 14,202', Brk circulation wash down to 14,232'	14232	14232
09:30	15:30	6.0	Drilling	Rot/Slide 14,232' -14,482'. (250@42 fph) 4000 psi, 500 dif, 20 wob, 70 rot,168 bit rpm	14232	14482
15:30	16:00	0.5	Lubricate Rig	Rig service	14482	14482
16:00	06:00	14.0	Drilling	Drill as per well plan F/14,482' T/15,100'. (618@44 fph) 4200 psi, 500 psi, 20 wob, 70 rot, 168 bit rpm	14482	15100.
TOTAL HRS		24.0				

WEATHER

WEATHER							
GEN. CONDITIONS:	Clear	WIND SPEED:	3	WIND DIRECTION:	SSW	TEMP:	58

COMMENTS:

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H										CONTRACTOR: Cactus										RIG: Cactus 137																																																											
RPT DATE: April 10, 2017										SPUD DATE: 3/12/17										CASING					OD		WT		GRD		MD		TVD																																														
API #: 42475372040000										DFS: 29										Conductor					20						102		102																																														
FIELD: Phantom (Wolfcamp)										REPORT NO: 30										Surface					13-3/8		55		J55		1,208		1,208																																														
ELEV: 2,656										RKB: 25										DOL: 31					Intermediate					10-3/4		46		J55		5,008		4,995																																									
MD: 15,300										TVD: 11,200										LAST BOP TEST: 4/2/17																																																											
24 HR FTG: 200										HRS DRLG: 6.5										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		59.0				6		7				2		11				15		16		21		8		33,000						22,000		61.90		9.81		2.00																																							
																				REDUCED PUMP RATES																																																											
										PUMP					SPM					PRESS					DEPTH																																																						
										#1					30					800					15,228																																																						
										#2					30					840					15,228																																																						
BIT DATA																																																																															
NO.				SIZE				MAKE				TYPE				SER NO.				NOZZLES				RE-RUN				IN		OUT		FEET		HRS		WOB		RPM		ROP																																							
16				6.75				Ulterra				U613M				21880				6-14						15,100		15,300		200		6.5		25		168		31																																									
15				6.75				Ulterra				U613M				24913				6-14				N		15,100		15,100								173																																											
BIT NO.		15		INNER		1		OUTER		2		DULL		WT		LOC		SH		SEAL				GAUGE		IN		OTHER		NO		RP		DTF																																													
HYDRAULICS DATA																																																																															
PUMP				MAKE				MODEL				LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP		PUMP HHP																																													
1				Hong Hua				HHF 1600				5.000		12.000		85		3600		250		2.906		95		13.62		288		349		26.5		844																																													
2				Hong Hua				HHF 1600				5.000		12.000										95																																																							
BHA																																																																															
DESCRIPTION:										Lateral																																																																					
LENGTH										7,565.54										BHA WT. AIR																																																											
ROT. WT.										218,000										P.U. WT.										260,000										S.O. WT.										150,000										TORQUE										12									
TIME MADE UP										14:30										DATE MADE UP										4/9/2017										TIME PULLED																				DATE PULLED																			
SURVEY DATA																																																																															
MD					ANGLE					AZIMUTH					TVD					N/S					COORDINATES					E/W					V. SECTION					DLS																																							
14,807					88.70					161.50					11,171					-3,684.4					1,251.4					3,887.5					1.2																																												
14,900					87.80					156.70					11,174					-3,771.3					1,284.6					3,980.1					5.3																																												
14,994					89.40					156.90					11,176					-3,857.6					1,321.6					4,073.4					1.7																																												
15,087					89.00					161.50					11,177					-3,944.5					1,354.6					4,166.1					5.0																																												
CONSUMABLES										DIESEL FUEL (gal) Rcvd/Used/On Hand:										DRILL H2O (gal) Rcvd/Used/On Hand:																																																											
OPERATIONS TIME LOG																																																																															
FROM		TO		HRS		CODE												Start MD										End MD																																																			
06:00		07:30		1.5		Cond Mud & Circ		Pressure spikes from motor, while attempting to rotate, gained 800 psi, Circulate while building slug.										15100										15100																																																			
07:30		19:00		11.5		Trips		TOOH to swap out motor/bit. Break out bit and lay down motor. Pick up new motor and scribe. Test MWD. Make up bit. TIH/Fill pipe every 40 stands. TIH T/10,600'. Install TIW.										15100										15100																																																			
19:00		19:30		0.5		Lubricate Rig																																																																									

[illegible]



WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus					RIG: Cactus 138			
RPT DATE: March 12, 2017				SPUD DATE: 3/12/17		CASING		OD	WT	GRD	MD	TVD
		API #: 42475372040000		DFS:		Conductor		20			102	102
				REPORT NO: 4								
FIELD: Phantom (Wolfcamp)				DOL: 10								
ELEV: 2,656		RKB:		25		LAST BOP TEST: 3/10/17						
MD: 1,220		TVD: 1,220										
24 HR FTG: 1,220		HRS DRLG: 3.5		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
16:00	8.4	28.0	120.0			8.7	1						1,900		0.01	0.12			1.78	
												REDUCED PUMP RATES								
												PUMP		SPM		PRESS		DEPTH		
												#1								
												#2								

BIT DATA																				
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP
1		17.50		Baker		Baker Hughes		5260686		9-18				102	1,220	1,118	2.5	75	72	447
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	Hong Hua	HHF 1600	6.000	12.000	95	2200	800	4.18	95					
2	Hong Hua	HHF 1600	6.000	12.000	95	2200	800	4.18	95					

BHA							
DESCRIPTION:	SurfaceBHA						
LENGTH	1,220.00	BHA WT. AIR	82,963	BHA WT. MUD	71,348	HRS. ON JARS	
ROT. WT.	105,000	P.U. WT.	109,000	S.O. WT.	10,200	TORQUE	11,000
TIME MADE UP	16:00	DATE MADE UP	3/12/2017	TIME PULLED		DATE PULLED	

SURVEY DATA								
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
579	1.50	130.40	579	-3.2	6.5		4.9	0.3
671	1.90	143.90	671	-5.2	8.4		7.3	0.6
855	1.80	133.90	855	-9.7	12.2		12.7	0.2
1,131	1.10	165.20	1,131	-15.2	16.0		19.1	0.4

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

OPERATIONS TIME LOG						Start MD	End MD
FROM	TO	HRS	CODE				
06:00	18:00	12.0	Rig Up & Tear Down	Installed grounding rods & prepare location and equipment for operations. Conducted pre-spud inspection, made corrections to unsatisfactory remarks. Strapped BHA, rigged in fluid cellar fluid transfer equipment. Made up 12 stands HWDP and racked in derrick. PU MM & DD tools. Attempted to fire #3 motor but throttle accelerator not functioning, changed out Raycore filters on #3 motor. WO mechanic & electrician for #3 motor repairs.		105	105
18:00	00:00	6.0	Rig Up & Tear Down	WO mechanic & electrician for #3 motor repairs. Prepare rig floor, general house keeping around location and equipment.		105	105
00:00	01:00	1.0	Dir Work	Troubleshoot MWD.		105	105
01:00	04:30	3.5	Drilling	Drill surface F/105' T/1220'. RPM-90 WOB-0-35 GPM-800 ROP-446		105	1220
TOTAL HRS		22.5					

WEATHER	
GEN. CONDITIONS:	Overcast
WIND SPEED:	18
WIND DIRECTION:	N
TEMP:	49
COMMENTS:	

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus					RIG: Cactus 138			
RPT DATE: March 13, 2017		API #: 42475372040000		SPUD DATE: 3/12/17		CASING		OD	WT	GRD	MD	TVD
				DFS: 1		Conductor		20			102	102
				REPORT NO: 5		Surface		13-3/8	55	J55	1,208	1,208
FIELD: Phantom (Wolfcamp)				DOL: 11								
ELEV: 2,656		RKB: 25		LAST BOP TEST: 3/10/17								
MD: 1,220		TVD: 1,220										
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
16:00	8.5	28.0	120.0	1		9.4	1						2,500		0.10	0.21			5.01	

REDUCED PUMP RATES			
PUMP	SPM	PRESS	DEPTH
#1			
#2			

BIT DATA																				
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP
1		17.50		Baker		Baker Hughes		5260686		9-18				102	1,220	1,118	2.5	75	72	447
BIT NO.	1	INNER	1	OUTER	1	DULL	WT	LOC	S	SEAL		GAUGE	In	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	Hong Hua	HHF 1600	6.000	12.000					95					
2	Hong Hua	HHF 1600	6.000	12.000					95					

BHA							
DESCRIPTION:	SurfaceBHA						
LENGTH	1,220.00	BHA WT. AIR	82,963	BHA WT. MUD	71,348	HRS. ON JARS	
ROT. WT.	105,000	P.U. WT.	109,000	S.O. WT.	10,200	TORQUE	11,000
TIME MADE UP	16:00	DATE MADE UP	3/12/2017	TIME PULLED	09:00	DATE PULLED	3/12/2017

[illegible]

CONSUMABLES	DIESEL FUEL (gal) Rcvd/Used/On Hand:	DRILL H2O (gal) Rcvd/Used/On Hand:
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OPERATIONS TIME LOG

[illegible]

TOTAL HRS	24.0	
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[illegible]

GEN. CONDITIONS:	P. Cloudy	WIND SPEED:	5	WIND DIRECTION:		TEMP:	74
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DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H										CONTRACTOR: Cactus										RIG: Cactus 138																			
RPT DATE: March 14, 2017										SPUD DATE: 3/12/17										CASING					OD	WT	GRD	MD	TVD										
API #: 42475372040000										DFS: 2										Conductor					20			102	102										
										REPORT NO: 3										Surface					13-3/8	55	J55	1,208	1,208										
FIELD: Phantom (Wolfcamp)										DOL: 4																													
ELEV: 2,656					RKB: 25					LAST BOP TEST: 3/10/17																													
MD: 1,667					TVD: 1,665																																		
24 HR FTG: 447					HRS DRLG: 5.5					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																			
16:00	9.7	28.0	120.0	1	1	10.8	1	1					133,000		0.80	0.90	1,800		2.86																				
												REDUCED PUMP RATES																											
												PUMP					SPM					PRESS					DEPTH												
												#1					73					2,200					1,667												
												#2					77					2,200					1,667												
BIT DATA																																							
NO.		SIZE			MAKE			TYPE			SER NO.		NOZZLES		RE-RUN		IN		OUT		FEET		HRS		WOB		RPM		ROP										
3		12.25			Baker			DP605X			7157810		7-16				1,461		1,667		206		6.0		30		59		34										
2		12.25			Baker			DP605X			7157728		7-16		N		1,220		1,461		241		6.0		16		59		40										
BIT NO.		2			INNER			0			OUTER			NO		DULL		NO		LOC		ALL		SEAL		N/A		GAUGE		IN		OTHER		NO		RP		ROP	
HYDRAULICS DATA																																							
PUMP		MAKE			MODEL			LINER			STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP		PUMP HHP								
1		Hong Hua			HHF 1600			6.000			12.000		76		2150		350		4.186		95		9.74		121		190		30.2		733								
2		Hong Hua			HHF 1600			6.000			12.000		76		2150		350		4.18		95		9.74		121		190		30.2		733								
BHA																																							
DESCRIPTION:				1st Intermediate																																			
LENGTH				1,667.00				BHA WT. AIR				165,000				BHA WT. MUD				140,000				HRS. ON JARS															
ROT. WT.				140,000				P.U. WT.				150,000				S.O. WT.				130,000				TORQUE				11,000											
TIME MADE UP				15:00				DATE MADE UP				3/13/2017				TIME PULLED								DATE PULLED															
SURVEY DATA																																							
MD				ANGLE				AZIMUTH				TVD				N/S		COORDINATES				E/W		V. SECTION				DLS											
1,331				0.50				191.50				1,331				-18.5		16.3						22.3				0.6											
1,426				1.10				324.40				1,426				-18.1		15.7						21.8				1.6											
1,518				2.10				18.40				1,518				-15.8		15.7						19.6				1.9											
1,610				3.80				20.00				1,610				-11.3		17.3						15.7				1.9											
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		11:00		5.0		Nipple Up B.O.P.		Made weld modifications to flowline. MU DD tools, PU & rack back 6 - 8" & 3 - 6" DC.												1220		1220																	
11:00		11:30		0.5		Lubricate Rig		Rig Service.												1220		1220																	
11:30		14:00		2.5		Trips		Shallow test MM, trip in hole with MM & DD tools.												1220		1220																	
14:00		16:00		2.0		Other		Drill out float & shoe track. Drill 10' new hole and conduct FIT. Pumped and held 143 psi on formation to achieve equivalent MW 12.00 ppg												1220		1230																	
								BOP drill with crews mustering at stations.																															
16:00		18:00		2.0		Drilling		Drill & slide as needed F/1230' T/1461', 231', (rotated 213', slid 50') motor failed .												1230		1461																	
18:00		23:30		5.5		Trips		Circulate and POOH F/1461' T/Bit. C/O bit and motor and pick up same. Scribe and shallow test MWD. TIH T/1392'.												1461		1461																	
23:30		00:00		0.5		Reaming		Wash/Ream F/1392' T/1461'.												1461		1461																	
00:00		02:00		2.0		Other		Touch bottom with bit and attempt to drill. Bit failed to drill off weight. No show of torque or diff. Troubleshoot. Attempt to adjust drilling parameters with no response to formation. Pull rotating head and drain stack to inspect for obstruction nothing found. Decided rotating head could be causing issues. Rack back 1-stand in derrick and attempt to drill ahead. Heavy weight drill pipe was hanging up in rotating head assembly.												1461		1461																	
02:00		04:30		2.5		Drilling		Drill and slide as needed as per well plan. F/1461' T/1576' RPM/50 GPM/650 WOB/20-30												1461		1576																	
04:30		05:00		0.5		Dir Work		Troubleshoot MWD display. Power to transformer went bad. Swap out transformer. Reestablish enough power to get MWD display. Problem is plug or SCR. Cactus electrician en route												1576		1576																	
05:00		06:00		1.0		Drilling		Drill 1,576'-1,667' psi 3000,dif 400,wob 34,gpm 750, rot 60,												1576		1667																	

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus				RIG: Cactus 138	
RPT DATE: March 15, 2017				SPUD DATE: 3/12/17		CASING		OD	WT
		API #:	42475372040000	DFS: 3		Conductor		20	
				REPORT NO: 4		Surface		13-3/8	55
FIELD: Phantom (Wolfcamp)				DOL: 5					
ELEV:		2,656	RKB:	25	LAST BOP TEST: 3/10/17				
MD:		3,076	TVD:	3,065					
24 HR FTG:		1,409	HRS DRLG:	14.5	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
16:00	10.0	28.0	120.0			10.3	1	1			1	1	127.000		0.35	0.40	2,000		5.11	
												REDUCED PUMP RATES								
												PUMP		SPM		PRESS		DEPTH		
												#1		97		2,200				
												#2		97		2,200				

BIT DATA																			
NO.		SIZE	MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP
4		12.25	Ulterra		U6195		33975		6-16				3,076						
3		12.25	Baker		DP605X		7157810		7-16		N		1,667	3,076	1,409	14.5	30	74	97
BIT NO.	3	INNER	1	OUTER	1	DULL	WT	LOC	SH	SEAL	N/A	GAUGE	IN	OTHER	CT	RP	DTF		

HYDRAULICS DATA														
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	Hong Hua	HHF 1600	6.000	12.000	97		410	4.18	95					
2	Hong Hua	HHF 1600	6.000	12.000	97		410	4.18	95					

BHA							
DESCRIPTION:	1st Intermediate						
LENGTH	3,076.00	BHA WT. AIR	165,000	BHA WT. MUD	140,000	HRS. ON JARS	
ROT. WT.	140,000	P.U. WT.	150,000	S.O. WT.	130,000	TORQUE	14,000
TIME MADE UP	15:00	DATE MADE UP	3/13/2017	TIME PULLED	00:00	DATE PULLED	3/15/2017

SURVEY DATA								
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
2,542	5.80	34.70	2,535	93.1	55.1		-73.9	0.9
2,637	5.90	33.00	2,629	101.1	60.5		-80.1	0.2
2,732	6.20	33.80	2,724	109.5	66.0		-86.6	0.3
2,826	6.80	33.30	2,817	118.4	71.8		-93.5	0.6

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

<u>OPERATIONS TIME LOG</u>						
FROM	TO	HRS	CODE		Start MD	End MD
06:00	10:00	4.0	Drilling	Drilled & slide as required , MU one std DP and drilled to 2133' / drill 400' - slide 65'. Psi 2900, diff 300, rot 65, wob 35, 800 gpm,bt rpm 72	1668	2133
10:00	10:30	0.5	Other	Racked back std DP same. Laid out one joint oversized HWDP (7" OD at hard-band) picked up replacement joint HWDP and RIH with last stand of HWDP and reinstalled rotating head.	2133	2133
10:30	11:30	1.0	Drilling	Drilled F/2133' - T/2317' (rotate 184' - slide 0') Psi, 3000,diff 340, rot 65,wob 35, 800 gpm, bit rpm 72	2133	2317
11:30	12:00	0.5	Lubricate Rig	Rig Service	2317	2317
12:00	21:00	9.0	Drilling	Drill F/2317' - T/3022' (rotate 675' Slid 30') Psi 3800,diff 550, wob 44, rot 70, 820 gpm, bit rpm 74	2317	3022
21:00	21:30	0.5	Lubricate Rig	Rig service/Change out savor sub,LD washed jt drill pipe	3022	3022
21:30	22:30	1.0	Repair Rig	C/O vibrator hose gasket on pump #1.	3022	3022
22:30	23:30	1.0	Other	Troubleshoot MWD failure.,Swap out transducer	3022	3022
23:30	00:00	0.5	Drilling	Drill F/3022' T/3076'., Attempt to achieve MWD	3022	3076
00:00	04:00	4.0	Trips	POOH F/3076' T/Surface,Break off bit,remove MWD,	3076	3076
04:00	06:00	2.0	Trips	Install MWD, scribe ,test MWD, Make up Ulterra bit TIH to 2400'	3076	3076
TOTAL HRS		24.0				

WEATHER							
GEN. CONDITIONS:	Clear & Sunny	WIND SPEED:	Calm	WIND DIRECTION:		TEMP:	82
COMMENTS:							

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus				RIG: Cactus 138	
RPT DATE: March 16, 2017				SPUD DATE: 3/12/17		CASING		OD	WT
		API #: 42475372040000		DFS: 4		Conductor		20	102
				REPORT NO: 5		Surface		13-3/8	1,208
FIELD: Phantom (Wolfcamp)				DOL: 6					
ELEV: 2,656		RKB: 25		LAST BOP TEST: 3/10/17					
MD: 4,520		TVD: 4,460							
24 HR FTG: 1,444		HRS DRLG: 21.5		CSGHD:					

DRILLING FLUID															SHOE TEST:					
TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)			PV	Y	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
16:00	10.0	28.0	120.0	1	1	9.9	1	1			1	1	153,000		0.30	0.50	1,680		3.43	
												REDUCED PUMP RATES								
												PUMP		SPM		PRESS		DEPTH		
												#1		82		3,400				
												#2		82		3,400				

BIT DATA																									
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM		ROP				
4		12.25		Ulterra		U6195		33975		6-16				3,076	4,520	1,444	21.5	45	72		67				
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	Hong Hua	HHF 1600	6.000	12.000	82	3400	340	4.18	95	10.12	121	197.9	113.3	7.79
2	Hong Hua	HHF 1600	6.000	12.000	82	3400	340	4.18	95	10.12	121	197.9	113.3	7.79

BHA							
DESCRIPTION:	1st Intermediate						
LENGTH	4,520.00	BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.	205,000	P.U. WT.	215,000	S.O. WT.	195,000	TORQUE	14,000
TIME MADE UP	04:00	DATE MADE UP	3/15/2017	TIME PULLED		DATE PULLED	

SURVEY DATA								
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
4,153	0.40	187.80	4,141	160.4	124.0	-119.2	0.3	
4,248	0.80	101.50	4,236	159.9	124.6	-118.6	0.9	
4,342	1.80	88.70	4,330	159.8	126.7	-117.9	1.1	
4,436	2.20	80.10	4,424	160.2	130.0	-117.3	0.5	

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	07:30	1.5	Trips	TIH, Wash 2,684'- 3,074'	3076	3076
07:30	17:30	10.0	Drilling	DD F/3074' - T/3643', (569' @ 57 fph) psi 4000,dif 350,wob 40,rot75,bit rpm 74,gpm800	3076	3643
17:30	18:00	0.5	Lubricate Rig	Rig Service	3643	3643
18:00	05:30	11.5	Drilling	DD F/ 3643' - T/ 4520'(877'@75fph) psi 3800,dif400,wob 46,rot 85,bit rpm 74,gpm 750	3643	4520
05:30	06:00	0.5	Lubricate Rig	Rig service	4520	4520
TOTAL HRS		24.0				

WEATHER							
GEN. CONDITIONS:	clear	WIND SPEED:	Calm	WIND DIRECTION:		TEMP:	91

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus					RIG:		Cactus 137	
RPT DATE: March 17, 2017				SPUD DATE: 3/12/17		CASING		OD	WT	GRD	MD	TVD
		API #:	42475372040000		DFS: 5		Conductor	20			102	102
				REPORT NO: 6		Surface	13-3/8	55	J55		1,208	1,208
FIELD: Phantom (Wolfcamp)				DOL: 7		Intermediate	10-3/4	46	J55		5,008	4,995
ELEV:	2,656	RKB:	25		LAST BOP TEST: 3/10/17							
MD:	5,025	TVD:	4,954									
24 HR FTG:	505	HRS DRLG:	7		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	
16:00	10.1	29.0	120.0	1	1	9.4	1	1		1	1	154,000		0.15	0.20	2,200		2.38		
											REDUCED PUMP RATES									
											PUMP		SPM		PRESS		DEPTH			
											#1		80		3,827		4,520			
											#2		80		3,827		4,520			

BIT DATA																						
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP		
4		12.25		Ulterra		U6195		33975		6-16				4,520	5,025	505	7.0	45	72	72		
BIT NO.	4	INNER	2	OUTER	2	DULL	BT	LOC	G	SEAL	N/A	GAUGE	IN	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	Hong Hua	HHF 1600	6.000	12.000	80	3600	720	4.18	95	10.07	129.8	188.6	112.8	7.75
2	Hong Hua	HHF 1600	6.000	12.000	80	3600	720	4.18	95	10.07	129.8	188.6	112.8	7.75

BHA							
DESCRIPTION:	1st Intermediate						
LENGTH	5,025.00	BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.	205,000	P.U. WT.	215,000	S.O. WT.	195,000	TORQUE	14,000
TIME MADE UP	06:00	DATE MADE UP	3/15/2017	TIME PULLED	19:00	DATE PULLED	3/16/2017

SURVEY DATA								
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
4,721	2.60	75.20	4,709		163.6	143.8	-116.7	0.3
4,815	2.20	76.90	4,803		164.6	147.6	-116.6	0.4
4,909	2.00	78.30	4,897		165.3	151.0	-116.4	0.2
4,967	1.70	81.30	4,955		165.7	152.8	-116.2	0.5

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	13:00	7.0	Drilling	Drill 4,520' - 5,025' (505') Psi 3600 psi,400 dif, 50 wob, rot,103.bit rpm 64, gpm 715 Notify TRRC of casing/cement run, Contact Isabel	4520	5025
13:00	14:30	1.5	Cond Mud & Circ	Pump sweeps, circulate BTM's up,check for flow, pump slug	5025	5025
14:30	19:00	4.5	Trips	TOH to run 10-3/4" csg., Lay down 8" DC, break off mtr.bit. remove MWD	5025	5025
19:00	19:30	0.5	Other	Pull wear bushing clear & prepare floor for running casing.	5025	5025
19:30	21:00	1.5	Run Csg & Cement	Rig up casing crew.	5025	5025
21:00	06:00	9.0	Run Csg & Cement	Make up shoe track, test floats, run 118 Jts plus landing Jt. 10.75" BTC 45.5 #/ft casing T/ 5,008' MD. Worked 2 joints casing through 1,466' to 1,509'.	5025	5025
TOTAL HRS		24.0				

TOTAL FINS		240					
WEATHER							
GEN. CONDITIONS:		clear	WIND SPEED:		Calm	WIND DIRECTION:	
						TEMP:	93
COMMENTS:							

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus					RIG:		Cactus 137		
RPT DATE: March 18, 2017				SPUD DATE: 3/12/17		CASING		OD	WT	GRD	MD	TVD	
		API #:	42475372040000		DFS: 6		Conductor		20		102	102	
					REPORT NO: 7		Surface		13-3/8	55	J55	1,208	1,208
FIELD: Phantom (Wolfcamp)				DOL: 8		Intermediate		10-3/4	46	J55	5,008	4,995	
ELEV:		2,656	RKB:	25		LAST BOP TEST: 3/10/17							
MD:		5,025	TVD:	4,954									
24 HR FTG:			HRS DRLG:	6.5		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	
16:00	9.1	28.0	120.0			9.4	1	1			1	1	154,000		0.15	0.20	2,160		2.38		
												REDUCED PUMP RATES									
												PUMP		SPM		PRESS		DEPTH			
												#1		30		195		5,161			
												#2		2		195		5,161			

BIT DATA																				
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP
5		9.88		Halliburton		PDC		12368740		7X11				5,025	5,822	797	6.5	30	68	123
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	Hong Hua	HHF 1600	6.000	12.000	91	3780	382	.0992	95					
2	Hong Hua	HHF 1600	6.000	12.000	91	3780	382	.0997	95					

BHA							
DESCRIPTION:	2nd Intermediate						
LENGTH	5,025.00	BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.	205,000	P.U. WT.	215,000	S.O. WT.	195,000	TORQUE	14,000
TIME MADE UP	15:30	DATE MADE UP	3/17/2017	TIME PULLED		DATE PULLED	

SURVEY DATA									
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS	
5,479	0.10	247.80	5,467	165.8	159.6		-114.4	0.3	
5,574	0.30	271.20	5,562	165.7	159.2		-114.5	0.2	
5,668	0.40	256.60	5,656	165.7	158.7		-114.6	0.1	
5,762	0.40	263.80	5,750	165.6	158.0		-114.6	0.1	

CONSUMABLES	DIESEL FUEL (gal) Rcvd/Used/On Hand:	DRILL H2O (gal) Rcvd/Used/On Hand:
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[illegible]

TOTAL HRS	24.0						
WEATHER							
GEN. CONDITIONS:	clear	WIND SPEED:	Calm	WIND DIRECTION:		TEMP:	90
COMMENTS:							



DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus				RIG: Cactus 137			
RPT DATE: March 19, 2017				SPUD DATE: 3/12/17		CASING	OD	WT	GRD	MD	TVD
		API #:	42475372040000	DFS: 7		Conductor	20			102	102
				REPORT NO: 8		Surface	13-3/8	55	J55	1,208	1,208
FIELD: Phantom (Wolfcamp)				DOL: 9		Intermediate	10-3/4	46	J55	5,008	4,995
ELEV:	2,656	RKB:	25	LAST BOP TEST: 3/10/17							
MD:	6,447	TVD:	6,435								
24 HR FTG:	625	HRS DRLG:	7	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
16:00	8.8	28.0	120.0			9.4	1	1			1	1	29,000		0.10	0.15	2,400		2.56	
												REDUCED PUMP RATES								
												PUMP		SPM		PRESS		DEPTH		
												#1		50		480		5,918		
												#2		50		450		5,918		

BIT DATA																					
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP	
5		9.88		Halliburton		PDC		12368740		7X11				5,822	6,435	613	7.0	30	68	88	
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	Hong Hua	HHF 1600	6.000	12.000	74	2500	310	4.18	95					
2	Hong Hua	HHF 1600	6.000	12.000	66	2500	276	4.18	95					

BHA							
DESCRIPTION:	2nd Intermediate						
LENGTH	5,025.00	BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.	205,000	P.U. WT.	215,000	S.O. WT.	195,000	TORQUE	14,000
TIME MADE UP	15:30	DATE MADE UP	3/17/2017	TIME PULLED	20:00	DATE PULLED	3/18/2017

SURVEY DATA																		
MD	ANGLE				AZIMUTH				TVD				N/S	COORDINATES		E/W	V. SECTION	DLS
6,047	1.30				284.30				6,034				165.7		155.0		-115.6	0.8
6,142	1.50				281.90				6,129				166.2		152.8		-116.7	0.2
6,236	1.50				283.10				6,223				166.8		150.4		-117.9	0.0
6,332	1.50				283.30				6,319				167.3		147.9		-119.2	0.0

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	07:00	1.0	Drilling	Drill 5,822'- 5953' (271 @ 271 fph) psi-3,800, diff-150/250 , wob-30, rot-120, gpm-750 Lost circulation, reduce pump rates to 650-gpm	5822	5953
07:00	07:30	0.5	Cond Mud & Circ	Lost circulation ,work string, filling mud pits	5953	5953
07:30	08:30	1.0	Drilling	Drill 5953-6037 (84 @ 84-fph) psi-3,000,diff-150/250 , wob-30, rot-120, gpm-650	5953	6037
08:30	09:00	0.5	Cond Mud & Circ	Lost returns work drill fill pits	6037	6037
09:00	13:30	4.5	Drilling	Drill 6037-6413 (376 @ 83.6-fph) psi-3,000, diff-150/250 , wob-30, rot-120, gpm-650	6037	6413
13:30	14:00	0.5	Lubricate Rig	Rig Service	6413	6413
14:00	14:30	0.5	Drilling	Drill 6,413-6,447 (34@ 68-fph) psi-3,000, diff-150/250 , wob-30, rot-120, gpm-650	6413	6447
14:30	17:00	2.5	Cond Mud & Circ	Circulate, pump LCM pills, work pipe, spot 100-bbl LCM pill	6447	6447
17:00	20:00	3.0	Trips	Pump slug, TOH, 6-1/2" DC twisted off, TOF estimated @ 6,310'	6447	6447
20:00	21:30	1.5	Trips	L/D 2 damaged DC, P/U 2-new 6-1/2" DC	6447	6447
21:30	22:00	0.5	Lubricate Rig	Service the rig	6447	6447
22:00	02:00	4.0	Other	Wait on fishing tools	6447	6447
02:00	03:00	1.0	Trips	P/U and M/U fishing BHA, overshot loaded w/6-1/8" grapple	6447	6447
03:00	06:00	3.0	Trips	TIH w/fishing BHA to 4,706'	6447	6447

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus					RIG: Cactus 137			
RPT DATE: March 20, 2017				SPUD DATE: 3/12/17		CASING		OD	WT	GRD	MD	TVD
		API #: 42475372040000		DFS: 8		Conductor		20			102	102
				REPORT NO: 9		Surface		13-3/8	55	J55	1,208	1,208
FIELD: Phantom (Wolfcamp)				DOL: 10		Intermediate		10-3/4	46	J55	5,008	4,995
ELEV: 2,656		RKB: 25		LAST BOP TEST: 3/10/17								
MD: 6,447		TVD: 6,434										
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
16:00	8.9	28.0	120.0	1	1	9.4	1	1			1	1	36,000		0.10	0.15	3,600		2.22	
												REDUCED PUMP RATES								
												PUMP		SPM		PRESS		DEPTH		
												#1		50		480		5,918		
												#2		50		450		5,918		

BIT DATA														
NO.		SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
5		9.88	Halliburton	PDC	12368740	7X11		5,822	6,435	613	7.0	30	68	88
BIT NO.		INNER	OUTER	DULL	LOC	SEAL		GAUGE		OTHER		RP		

[illegible]

BHA							
DESCRIPTION:	2nd Intermediate						
LENGTH	6,477.00	BHA WT. AIR	99,252	BHA WT. MUD	85,357	HRS. ON JARS	3.0
ROT. WT.	200,000	P.U. WT.	210,000	S.O. WT.	190,000	TORQUE	14,000
TIME MADE UP	03:00	DATE MADE UP	3/19/2017	TIME PULLED	23:00	DATE PULLED	3/19/2017

[illegible]

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	07:00	1.0	Trips	TIH to 6,311', tag fish, establish up down weights,240k up, 190k down	6447	6447
07:00	09:00	2.0	Fishing	Wash over fish, grab ahold of fish, attempt to jar free	6447	6447
09:00	10:00	1.0	Repair Rig	Repair drawworks (work on low drum clutch air system and change out versa valve)	6447	6447
10:00	10:30	0.5	Fishing	Jarring operations.	6447	6447
10:30	12:00	1.5	Repair Rig	Repair drawworks (work on low drum clutch air system and shuttle valve)	6447	6447
12:00	13:30	1.5	Fishing	Jarring operations.	6447	6447
13:30	14:00	0.5	Repair Rig	Repair drawworks (work on low drum clutch air system and change out quick release valve)	6447	6447
14:00	14:30	0.5	Fishing	Jarring operations.	6447	6447
14:30	15:30	1.0	Other	Inspect derrick for safe jarring operations.	6447	6447
15:30	16:00	0.5	Fishing	Jarring operations.	6447	6447
16:00	18:00	2.0	Repair Rig	Repair drawworks (work on low drum clutch system with NOV tech and Cactus mechanic)	6447	6447
18:00	19:30	1.5	Fishing	Jarring operations, jarred on fish until grapple overshot gave out.	6447	6447
19:30	23:00	3.5	Trips	TOH for fishing tool failure (hole taking proper fill)	6447	6447
23:00	00:00	1.0	Trips	Change out fishing tools (Overshot, bumper sub, fishing jars, accelerator) Picked up 3 additional 6 1/2" collars to maximize jarring effect.	6447	6447
00:00	03:00	3.0	Trips	TIH to TOF @ 6,311' (PU-240K, SO-190K)	6447	6447
03:00	05:30	2.5	Fishing	Engage overshot grapple on fish, attempt to jar fish free.	6447	6447
05:30	06:00	0.5	Other	Inspect derrick for continued jarring operations.	6447	6447
TOTAL HRS		24.0				

TOTAL FMS		LWS					
WEATHER							
GEN. CONDITIONS:	Clear	WIND SPEED:	6 mph	WIND DIRECTION:	E	TEMP:	63

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus					RIG: Cactus 137			
RPT DATE: March 21, 2017		API #: 42475372040000		SPUD DATE: 3/12/17		CASING		OD	WT	GRD	MD	TVD
				DFS: 9		Conductor		20			102	102
				REPORT NO: 10		Surface		13-3/8	55	J55	1,208	1,208
FIELD: Phantom (Wolfcamp)				DOL: 11		Intermediate		10-3/4	46	J55	5,008	4,995
ELEV:	2,656	RKB:	25	LAST BOP TEST: 3/10/17								
MD:	6,447	TVD:	6,434									
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		
16:00	8.9	28.0	120.0			10.7	1	1		1	1	42,000		0.25	0.35	4,400		2.92		
											REDUCED PUMP RATES									
											PUMP		SPM		PRESS		DEPTH			
											#1		50		480		5,918			
											#2		50		450		5,918			

BIT DATA																																	
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN		OUT		FEET		HRS		WOB		RPM		ROP							
5		9.88		Halliburton		PDC		12368740		7X11														0									
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	Hong Hua	HHF 1600	6.000	12.000			0	0	95	0			0	0
2	Hong Hua	HHF 1600	6.000	12.000			0	0	95	0				

BHA							
DESCRIPTION:	2nd Intermediate						
LENGTH	6,477.00	BHA WT. AIR	99,252	BHA WT. MUD	85,357	HRS. ON JARS	3.0
ROT. WT.	200,000	P.U. WT.	210,000	S.O. WT.	190,000	TORQUE	14,000
TIME MADE UP	23:00	DATE MADE UP	3/19/2017	TIME PULLED	03:00	DATE PULLED	3/21/2017

[illegible]

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	09:00	3.0	Fishing	Jarring on fish.	6447	6447
09:00	09:30	0.5	Other	Inspect derrick due to jarring operations.	6447	6447
09:30	10:30	1.0	Fishing	Jarring on fish.	6447	6447
10:30	11:00	0.5	Repair Rig	Wait for drum clutch to cool	6447	6447
11:00	11:30	0.5	Fishing	Spot a 30-barrel diesel pill	6447	6447
11:30	12:30	1.0	Fishing	Jarring on fish.	6447	6447
12:30	14:00	1.5	Fishing	R/U Brannco wire line truck.	6447	6447
14:00	15:00	1.0	Fishing	TIH with 3-point to determine stuck point, stuck at 6,350', TOH.	6447	6447
15:00	17:00	2.0	Fishing	TIH w/string charge to back off at 6-1/2" DC, unsuccessful, TOH.	6447	6447
17:00	17:30	0.5	Fishing	Jarring to release 3-point, TOH	6447	6447
17:30	22:00	4.5	Fishing	Prepare charge #3 and TIH to free point, shoot string and back off top 6-1/2" DC.	6447	6447
22:00	03:00	5.0	Fishing	TOH with fish, check torque on each connection coming out.	6447	6447
03:00	05:00	2.0	Trips	L/D fishing tools, fish and 3-DC's, P/U 3-DC's.	6447	6447
05:00	06:00	1.0	Cut off Drill Line	Slip and cut 90' of drill line	6447	6447

TOTAL HRS		24.0				

WEATHER							
GEN. CONDITIONS:	Partly Cloudy	WIND SPEED:	6	WIND DIRECTION:	ESE	TEMP:	62



DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H		CONTRACTOR: Cactus		RIG: Cactus 137															
RPT DATE: March 22, 2017		SPUD DATE: 3/12/17		GRD MD TVD															
API #: 42475372040000		DFS: 10		Casing OD WT															
FIELD: Phantom (Wolfcamp)		REPORT NO: 11		Surface 13-3/8 55 J55 1,208 1,208															
ELEV: 2,656		DOL: 12		Intermediate 10-3/4 46 J55 5,008 4,995															
MD: 6,447		LAST BOP TEST: 3/10/17																	
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	
16:00	8.9	28.0	120.0			11.4	1	1		1	42,000		0.20	0.35	3,200		1.77		
REDUCED PUMP RATES																			
PUMP														SPM		PRESS		DEPTH	
#1														50		480		5,918	
#2														50		450		5,918	
BIT DATA																			
NO.	SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN		OUT		FEET		
5	9.88		Halliburton		PDC		12368740		7X11										
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP			
HYDRAULICS DATA																			
PUMP	MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		
1	Hong Hua		HHF 1600		6.000		12.000												
2	Hong Hua		HHF 1600		6.000		12.000												
BHA																			
DESCRIPTION:		2nd Intermediate																	
LENGTH		6,477.00		BHA WT. AIR		99,252		BHA WT. MUD		85,357		HRS. ON JARS		3.0					
ROT. WT.		200,000		P.U. WT.		210,000		S.O. WT.		190,000		TORQUE		14,000					
TIME MADE UP		23:00		DATE MADE UP		3/19/2017		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:				DRILL H2O (gal) Rcvd/Used/On Hand:															
OPERATIONS TIME LOG																			
FROM	TO	HRS	CODE											Start MD	End MD				
06:00	08:00	2.0	Cut off Drill Line	Slip and cut 98' of drill line, inspect derrick										6447	6447				
08:00	08:30	0.5	Lubricate Rig	Service the rig and top drive.										6447	6447				
08:30	15:00	6.5	Other	Wait on tools to run whipstock.										6447	6447				
15:00	16:00	1.0	Trips	M/U whipstock and subs. Perforated Pup jt. - 20'L x 2.875" OD x 2.25" ID Float Sub - 32.1' L x .75" OD x 2.25" ID Whipstock - 34.83' L x 8.188" OD x 2" ID Running Tool - 6' L x 8" OD x 3" ID UBHO - 2.57' L x 67.5" OD x 2.25" ID 18 std HWDP - 1721.44' L x 5" OD 48 std DP - 6264.78' L x 5" OD 2 jt DP - 6264.78' L x 5" OD 9' stick up Landed depth - 6318' MD										6447	6447				
16:00	22:30	6.5	Trips	Strap tubulars in hole with whipstock.										6447	6447				
22:30	02:00	3.5	Other	R/U wireline and TIH to orient whipstock. Orientate whipstock to 192deg Azm.										6447	6447				
02:00	04:00	2.0	Other	Established circulation. Dropped & let 0.741" Anchor setting ball. Waited on Ball to seat. Pressured up 2500 and seated ball. Worked pipe to confirm Anchors set. Pressure up to 4000 psi to unseat 0.741" Anchor setting ball. Dropped & let 1.251" ball seat into Stinger Collet seat.										6447	6447				
04:00	05:30	1.5	Other	Circulate bottoms up at 70 SPM 4500 strokes.										6447	6447				
05:30	06:00	0.5	Other	R/U hold PJSM with cementers										6447	6447				
TOTAL HRS		24.0																	
WEATHER																			
GEN. CONDITIONS:		Partly cloudy		WIND SPEED:		8		WIND DIRECTION:		ESE		TEMP:		62					
COMMENTS:																			
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DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H								CONTRACTOR: Cactus								RIG: Cactus 137													
RPT DATE: March 23, 2017								SPUD DATE: 3/12/17								CASING				OD		WT		GRD		MD		TVD	
				API #: 42475372040000				DFS: 11				Conductor				20						102		102					
								REPORT NO: 12				Surface				13-3/8		55		J55		1,208		1,208					
FIELD: Phantom (Wolfcamp)								DOL: 13				Intermediate				10-3/4		46		J55		5,008		4,995					
ELEV: 2,656				RKB:								LAST BOP TEST: 3/10/17																	
MD: 6,290				TVD: 6,277																									
24 HR FTG:				HRS DRLG: 4				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									
16:00	8.8	33.0	120.0	6	8	12.1	1	3	3	3	4	12	42,000		0.75	1.05	3,200		0.92										
												REDUCED PUMP RATES																	
												PUMP				SPM				PRESS				DEPTH					
												#1				50				480				5,918					
												#2				50				450				5,918					
BIT DATA																													
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN		OUT		FEET		HRS		WOB		RPM		ROP			
6		9.88		Smith		TCI		RJ1195		3x20				6,034		28		4.5		5		48		6					
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		Hong Hua		HHF 1600		6.000		12.000		67		2320		670		0.099		95											
2		Hong Hua		HHF 1600		6.000		12.000		56		2320		560		0.099		95											
BHA																													
DESCRIPTION:		2nd Intermediate																											
LENGTH		1,943.00		BHA WT. AIR		167.000		BHA WT. MUD		145.000		HRS. ON JARS		4.000															
ROT. WT.				P.U. WT.		170.000		S.O. WT.		150.000		TORQUE		4.000															
TIME MADE UP		10:00		DATE MADE UP		3/22/2017		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:								DRILL H2O (gal) Rcvd/Used/On Hand:																	
OPERATIONS TIME LOG																													
FROM		TO		HRS		CODE												Start MD		End MD									
06:00		07:00		1.0		Dir Work		Finish spotting KO plug around OH whip stock 5 bbls fresh water spacer 13 bbls (70 sxs) cement mixed at 16.5 ppg Displace w/ 2 bbls fresh water, followed by 124 bbls 9.0 ppg brine										6034		6034									
07:00		11:00		4.0		Cond Mud & Circ		TOH 3 stands to 6,034' Circulate btms up: 9 bbls of "clabbered up" mud, contaminated w/ cement Continue circulate and condition mud 8.9 ppg and 50 visc in & out (No losses or gains while circulating) Flow check Slug pipe										6034		6034									
11:00		13:30		2.5		Trips		TOH w/ whip stock running tool & LD same Monitor well and hole fill w/ trip sheet										6034		6034									
13:30		18:00		4.5		Dir Work		MU motor 1.83 FBH motor & scribe RIH for MWD shallow test Pull up and screw bit on attempt to TIH set down at 80.5' (Casing connection, casing was drifted to 9.89") Remove 9-1/16 motor sleeve and try again (same spot set down) LD motor & bit Order fresh motors 1.75 FBH & 1.83 FBH										6034		6034									
18:00		18:30		0.5		Lubricate Rig		Service rig & equipment										6034		6034									
18:30		20:30		2.0		Other		Conduct hazard hunt, redress shakers WO arrival of fresh mud motors C/O shaker screens Monitor well on trip tank-static										6034		6034									
20:30		22:00		1.5		Dir Work		P/U 1.75-deg motor, scribe, install MWD and surface MWD/Motor M/U Smith Tri-cone bit.										6034		6034									
22:00		02:00		4.0		Trips		TIH to TOC. Tag cement at 6,070'										6034		6049									
02:00		02:30		0.5		Drilling		Rotate Drill soft cement f/6,049' to 6,252'										6049		6252									
02:30		06:00		3.5		Drilling		Orient motor to 192 deg Azm. Start side track at top of Whipstock at 6262' . Slid FR/ 6262' to 6279' (Departure depth of Whipstock). Slid with 5 WOB and 520 gpm through Whipstock. Slid to 6290' by report time.										6252											
								</																					

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus				RIG: Cactus 137	
RPT DATE: March 24, 2017				SPUD DATE: 3/12/17		CASING		OD	WT
		API #: 42475372040000		DFS: 12		Conductor		20	
				REPORT NO: 13		Surface		13-3/8	55
				DOL: 14		Intermediate		10-3/4	46
FIELD: Phantom (Wolfcamp)				LAST BOP TEST: 3/10/17					
ELEV: 2,656		RKB: 25							
MD: 6,517		TVD: 6,503							
24 HR FTG: 227		HRS DRLG: 17.5		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	HTH
16:00	8.9	33.0	120.0	11	8	10.9	1	5	5	7	5	15	47,000		0.20	0.40	2,800		2.27	
												REDUCED PUMP RATES								
												PUMP		SPM		PRESS		DEPTH		
												#1		50		480		5.918		
												#2		50		450		5.918		

BIT DATA													
NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
6	9.88	Smith	TCI	RJ1195	3x20		6,034	6,517	483	17.5	5	48	28
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	Hong Hua	HHF 1600	6.000	12.000		1900	530	4.18	95	9.2	172	380	79	
2	Hong Hua	HHF 1600	6.000	12.000		1900	530	4.18	95	9.2	172	380	79	

BHA							
DESCRIPTION:	2nd Intermediate						
LENGTH	1,943.00	BHA WT. AIR	210,000	BHA WT. MUD	180,000	HRS. ON JARS	
ROT. WT.	210,000	P.U. WT.	250,000	S.O. WT.	190,000	TORQUE	8
TIME MADE UP	10:00	DATE MADE UP	3/22/2017	TIME PULLED	02:00	DATE PULLED	3/24/2017

SURVEY DATA								
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
6,366	4.70	202.20	6,353		160.8	146.0	-113.4	1.7
6,398	4.70	201.20	6,385		158.4	145.0	-111.4	0.3
6,430	4.70	199.80	6,417		155.9	144.1	-109.3	0.4
6,461	4.80	200.00	6,448		153.5	143.3	-107.2	0.3

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

[illegible]

TOTAL HRS	24.0
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WEATHER							
GEN. CONDITIONS:	Clear	WIND SPEED:	15	WIND DIRECTION:	WNW	TEMP:	64

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus				RIG: Cactus 137	
RPT DATE: March 25, 2017				SPUD DATE: 3/12/17		CASING		OD	WT
		API #:	42475372040000	DFS: 13		Conductor		20	
				REPORT NO: 14		Surface		13-3/8	55
				DOL: 15		Intermediate		10-3/4	46
FIELD: Phantom (Wolfcamp)				LAST BOP TEST: 3/10/17					
ELEV: 2,656		RKB:	25						
MD:		TVD:							
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
16:00	9.0	36.0	120.0	9	13	9.8	1	9	10	10	6	18	43,000		0.10	0.20	2,800		2.87		
												REDUCED PUMP RATES									
												PUMP		SPM		PRESS		DEPTH			
												#1		50		680		6.771			
												#2		50		600		6.771			

BIT DATA																
NO.	SIZE		MAKE		TYPE		SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
7	9.88		Halliburton		PDC		12858249	7x11		6,517				22,000	64	
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	Hong Hua	HHF 1600	6.000	12.000		4000	710	4.18	95	9.36	172	380	80	1653
2	Hong Hua	HHF 1600	6.000	12.000		4000	710	4.18	95	9.36	172	380	80	1656

BHA						
DESCRIPTION:	2nd Intermediate					
LENGTH	1,943.00	BHA WT. AIR	210,000	BHA WT. MUD	180,000	HRS. ON JARS
ROT. WT.	210,000	P.U. WT.	250,000	S.O. WT.	190,000	TORQUE
TIME MADE UP	06:00	DATE MADE UP	3/24/2017	TIME PULLED		DATE PULLED
						8

[illegible]

CONSUMABLES	DIESEL FUEL (gal) Rcvd/Used/On Hand:	DRILL H2O (gal) Rcvd/Used/On Hand:
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OPERATIONS TIME LOG

OPERATIONS TIME LOG						
FROM	TO	HRS	CODE		Start MD	End MD
06:00	07:30	1.5	Dir Work	Change out MWD shoe & UBHO sleeve, scribe, shallow test, MU bit (Halliburton PDC MM 55DM)	6517	6517
07:30	11:30	4.0	Trips	TIH Steerable BHA # 7 Fill pipe every 30 stands	6517	6517
11:30	12:30	1.0	Cond Mud & Circ	Fill pipe, orientate T/200 MTF TIH past whip stock, finish circulate bttms up, record SPR	6517	6517
12:30	13:00	0.5	Reaming	Wash to bttm F/6486 T/6517	6517	6517
13:00			Drilling	Drill ahead 9-7/8" INT 2 section w/ steerable BHA # 7	6517	
TOTAL HRS		7.0				

WEATHER							
GEN. CONDITIONS:	Clear	WIND SPEED:	6	WIND DIRECTION:	WNW	TEMP:	42
COMMENTS:							

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H										CONTRACTOR: Cactus										RIG: Cactus 137											
RPT DATE: March 26, 2017										SPUD DATE: 3/12/17					CASING			OD	WT	GRD	MD	TVD									
API #: 42475372040000										DFS: 14					Conductor			20			102	102									
										REPORT NO: 15					Surface			13-3/8	55	J55	1,208	1,208									
FIELD: Phantom (Wolfcamp)										DOL: 16					Intermediate			10-3/4	46	J55	5,008	4,995									
ELEV: 2,656					RKB: 25					LAST BOP TEST: 3/10/17																					
MD: 7,275					TVD: 7,261																										
24 HR FTG: 758					HRS DRLG: 7.5					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	9.2	42.0	120.0	12	18	9.7	16	9	14	18	6	32	39,000		0.10	0.20	2,800		4.07												
												REDUCED PUMP RATES																			
												PUMP		SPM		PRESS		DEPTH													
												#1		50		680		6,771													
												#2		50		600		6,771													
BIT DATA																															
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP											
8		9.88		Halliburton		PDC		12335891		7x11				6.866	7,275	409	6.5	31	120	63											
7		9.88		Halliburton		PDC		12858249		7x11		N		6,517	6,866	349	10.5	22,000	120	33											
BIT NO.		7		INNER		1	OUTER		7	DULL		BT,CT,W	LOC	H,S	SEAL	GAUGE		1	OTHER	BT	RP	DTF									
HYDRAULICS DATA																															
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP	AV DC	BIT HHP		PUMP HHP					
1		Hong Hua		HHF 1600		6.000		12.000		75		4000		750		4.18		65													
2		Hong Hua		HHF 1600		6.000		12.000		75		4000		750		4.18		95													
BHA																															
DESCRIPTION:				2nd Intermediate																											
LENGTH				1,943.00				BHA WT. AIR				220,000				BHA WT. MUD				189,200				HRS. ON JARS							
ROT. WT.				230,000				P.U. WT.				260,000				S.O. WT.				210,000				TORQUE				12			
TIME MADE UP				17:30				DATE MADE UP				3/24/2017				TIME PULLED				06:00				DATE PULLED				3/25/2017			
SURVEY DATA																															
MD				ANGLE				AZIMUTH				TVD				N/S		COORDINATES				E/W		V. SECTION				DLS			
6.903				5.20				187.10				6.888				115.8		134.0						-73.6				0.2			
6.998				5.20				189.20				6.983				107.3		132.8						-65.8				0.2			
7.093				4.60				173.80				7.077				99.3		132.5						-58.1				1.5			
7.189				4.50				170.10				7.173				91.7		133.6						-50.6				0.3			
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	07:30	1.5	Cond Mud & Circ	Circulate bttms up, prepare to TOH MWD failure. Flow check, slug pipe														6866	6866												
07:30	10:00	2.5	Trips	TOH, MWD failure														6866	6866												
10:00	17:00	7.0	Dir Work	Retrieve and LD MWD, swap out mud motors, scribe, install MWD, shallow test, MU fresh bit. Found damaged box on Leam's 8" monels (Caused from damaged threads on Leam's steel lift subs (7) LD damaged monels, lift subs, XO subs, 6 1/2 DC PU fresh 8" monels, re-scribe, re-install MWD, MU bit														6866	6866												
17:00	21:30	4.5	Trips	TIH w/ BHA # 8. Took 20k weight between at 5945' - 6115' . Filled pipe and orientate tools to 198 deg Azm., Passed through Whipstock 2 min/std with no issue.														6866	6866												
21:30	22:00	0.5	Cond Mud & Circ	Lost 475 BBLs mud while filling pipe. M/U volume, mix & pump LCM sweeps per Loss Circ. decision tree for Phase II static losses.														6866	6866												
22:00	05:30	7.5	Drilling	Drilled/Slide 6866' - 7275' , Regained circulation at 6870'. Brushy Canyon top in at 7104' MD, 7088.34 TVD, (7' below Plan) Lithology: 55% Shale, 25% Limestone, 15% Siltstone, 5% Sandstone Rot: 395' - 6.5 hrs Slide: 25' - 1.5 hrs 600 - 750 gpm 18 - 32 WOB 11 - 16K Torq.														6866	7275												
05:30	06:00	0.5	Lubricate Rig	Rig Service.														7275	7275												

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H										CONTRACTOR: Cactus										RIG: Cactus 137									
RPT DATE: March 27, 2017										SPUD DATE: 3/12/17					CASING			OD	WT	GRD	MD	TVD							
API #: 42475372040000										DFS: 15					Conductor			20			102	102							
										REPORT NO: 16					Surface			13-3/8	55	J55	1,208	1,208							
FIELD: Phantom (Wolfcamp)										DOL: 17					Intermediate			10-3/4	46	J55	5,008	4,995							
ELEV: 2,656		RKB:		25						LAST BOP TEST: 3/10/17																			
MD: 7,662		TVD: 7,645																											
24 HR FTG: 387		HRS DRLG: 10				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	8.9	30.0	120.0	4	5	8.5	6	5	6	6	1	8	30,000		0.05	0.15	2,400		2.02										
												REDUCED PUMP RATES																	
												PUMP		SPM		PRESS		DEPTH											
												#1		50		680		6,771											
												#2		50		600		6,771											
BIT DATA																													
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP									
9		9.88		STI		PDC		JM4998		6 X 12				7,662															
8		9.88		Halliburton		PDC		12335891		7x11		N		7,275		7,662		387		12.0	31	120	32						
BIT NO.		8		INNER		2		OUTER		6		DULL		BT	LOC	H	SEAL	X	GAUGE	IN	OTHER	CT	RP	PR					
HYDRAULICS DATA																													
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP		PUMP HHP	
1		Hong Hua		HHF 1600		6,000		12,000		87		3600		750		4.18		95		9.01		219		483		162		1377	
2		Hong Hua		HHF 1600		6,000		12,000		87		3600		750		4.18		95		9.01		219		483		162		1377	
BHA																													
DESCRIPTION:			2nd Intermediate																										
LENGTH			1,943.00			BHA WT. AIR			238,000			BHA WT. MUD			204,000			HRS. ON JARS											
ROT. WT.			238,000			P.U. WT.			280,000			S.O. WT.			195,000			TORQUE			12								
TIME MADE UP			01:30			DATE MADE UP			3/27/2017			TIME PULLED						DATE PULLED											
SURVEY DATA																													
MD			ANGLE			AZIMUTH			TVD			N/S			COORDINATES			E/W		V. SECTION		DLS							
7,284			4.00			170.40			7,268			84.8			134.8					-43.6		0.5							
7,379			3.50			169.20			7,363			78.7			135.9					-37.4		0.5							
7,473			3.30			171.80			7,456			73.2			136.8					-31.9		0.3							
7,568			2.90			168.50			7,551			68.1			137.6					-26.8		0.5							
CONSUMABLES				DIESEL FUEL (gal) Rcvd/Used/On Hand:								DRILL H2O (gal) Rcvd/Used/On Hand:																	
OPERATIONS TIME LOG																													
FROM		TO		HRS		CODE														Start MD		End MD							
06:00		09:30		3.5		Drilling		Drilled F/ 7,275' T/ 7,444' WOB - 25 - 30 gpm - 600 - 700 RPM 45 - 75												7275		7444							
09:30		10:30		1.0		Other		Changed swab & liner on #2 pump.												7444		7444							
10:30		12:30		2.0		Drilling		Drilled F/ 7,444' T/ 7,530' WOB - 25 - 30 gpm - 600 - 700 RPM 45 - 60 - 75												7444		7530							
12:30		13:00		0.5		Other		Changed out Rotating Head												7530		7530							
13:00		13:30		0.5		Lubricate Rig		Rig Service												7530		7530							
13:30		18:00		4.5		Drilling		Drilled F/ 7,530' - T/ 7,662' WOB - 25 - 38 gpm - 600 - 700 RPM 40 - 60 PU - 280K, SO - 195K, RT - 238K												7530		7662							
18:00		19:30		1.5		Other		Changed swab & liner on #2 pump.												7662		7662							
19:30		20:00		0.5		Cond Mud & Circ		Received orders to trip bit #8 out. Pumped slug.												7662		7662							
20:00		00:00		4.0		Trips		TOH complete with flow checks. Orientated tools and pulled through whipstock without issue.												7662		7662							
00:00		01:30		1.5		Trips		MU Bit & BHA #9. STI 9.875" MSi616 bit 1 - 8" 7:8 3.4 - 1.75 FXD Motor 1 - 8" Float Sub 1 - 8" UBHO 2jts - 8" NMDC XO XO 2 std - 6.5" DC XO 60jts - 5" HWDP												7662		7662							
01:30		05:00		3.5		Trips		Trip in hole from surface, filled pipe every 30 stds.												7662		7662							
05:00		05:30		0.5		Cond Mud & Circ		Circulate bottoms up, CO rotating head gasket												7662		7662							
05:30		06:00		0.5		Trips		TIH												7662		7662							



DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus					RIG: Cactus 137			
RPT DATE: March 28, 2017				SPUD DATE: 3/12/17		CASING		OD	WT	GRD	MD	TVD
		API #: 42475372040000		DFS: 16		Conductor		20			102	102
				REPORT NO: 17		Surface		13-3/8	55	J55	1,208	1,208
FIELD: Phantom (Wolfcamp)				DOL: 18		Intermediate		10-3/4	46	J55	5,008	4,995
ELEV: 2,656		RKB: 25		LAST BOP TEST: 3/10/17								
MD: 8,479		TVD: 8,462										
24 HR FTG: 817		HRS DRLG: 21		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	8.9	329.0	120.0	4	5	9.0	6	4	7	8	1	8	30,000		0.10	0.20	2,800		2.52	
												REDUCED PUMP RATES								
												PUMP		SPM		PRESS		DEPTH		
												#1		40		380		8,100		
												#2		40		300		8,100		

BIT DATA																		
NO.	SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM
9	9.88		STI		PDC		JM4998		6 X 12				7,662				40	54
8	9.88		Halliburton		PDC		12335891		7x11		N		7,275	7,662	387	12.0	31	120
BIT NO.	8	INNER		2	OUTER		6	DULL	BT	LOC	H	SEAL	X	GAUGE	IN	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	Hong Hua		HHF 1600		6.000		12.000	70	2800	600	4.18	95	9.06	199	439	122	969	
2	Hong Hua		HHF 1600		6.000		12.000	70	2800	600	4.18	95	9.06	199	439	122	969	

BHA																		
DESCRIPTION:		2nd Intermediate																
LENGTH		1,943.00		BHA WT. AIR		238,000		BHA WT. MUD		204,000		HRS. ON JARS						
ROT. WT.		238,000		P.U. WT.		280,000		S.O. WT.		195,000		TORQUE		12				
TIME MADE UP		01:30		DATE MADE UP		3/27/2017		TIME PULLED				DATE PULLED						

SURVEY DATA																		
MD		ANGLE		AZIMUTH		TVD		N/S	COORDINATES		E/W	V. SECTION		DLS				
8,040		1.00		81.00		8,023			53.3		139.9		-11.9		1.8			
8,135		1.00		70.20		8,118			53.7		141.5		-11.8		0.2			
8,229		0.50		121.70		8,212			53.7		142.7		-11.6		0.8			
8,324		0.90		172.20		8,307			52.8		143.1		-10.5		0.7			

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	07:30	1.5	Trips	TIH BHA #9 Orientate & trip past whipstock	7662	7662
07:30	08:00	0.5	Cond Mud & Circ	Wash to bttm F/ 7,626' T/ 7,662'	7662	7662
08:00	09:00	1.0	Cond Mud & Circ	Circulate trip gas out through gas buster	7662	7662
09:00	06:00	21.0	Drilling	Drill ahead w/BHA #9 F/ 7,662' - T/ 8,479' Rot. - 443' 10 hrs Slide - 24' 1.5 hrs 1st Bone Springs Top came in 33' above programed depth 8,204' TVD: 8,188' MD 8,171' TVD Seen first sign of Chert at 8,380' MD 5% in samples. 575 GPM 55 TDU RPM 37 WOB 107 total bit speed	7662	8479
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DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus				RIG: Cactus 137	
RPT DATE: March 29, 2017				SPUD DATE: 3/12/17		CASING		OD	WT
		API #:	42475372040000	DFS: 17		Conductor		20	102
				REPORT NO: 18		Surface		13-3/8	55
FIELD: Phantom (Wolfcamp)				DOL: 19		Intermediate		10-3/4	46
ELEV:		2,656	RKB:	25	LAST BOP TEST: 3/10/17				
MD:		8,679	TVD:	8,662					
24 HR FTG:		200	HRS DRLG:	5.5	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	8.9	29.0	120.0	2	3	9.5	6	3	3	3	2	4	29,000		0.10	0.20	2,400		2.56		
												REDUCED PUMP RATES									
												PUMP		SPM		PRESS		DEPTH			
												#1		40		380		8,100			
												#2		40		300		8,100			

BIT DATA																	
NO.		SIZE	MAKE		TYPE		SER NO.	NOZZLES		RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
10		9.88	Halliburton		GTD55DM		12892403	7x11			8,643	8,679	36	1.0	35	60	36
9		9.88	Smith		MSI616LMEPX		JM4998	6 X 12		N	7,662	8,643	981	23.4	40	54	42
BIT NO.	9	INNER	7	OUTER	2	DULL	RO	LOC	N	SEAL	X	GAUGE	1	OTHER	CT	RP	ROP

HYDRAULICS DATA														
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	Hong Hua	HHF 1600	6.000	12.000		3600	700	4.18	95					
2	Hong Hua	HHF 1600	6.000	12.000		3600	700	4.18	95					

BHA						
DESCRIPTION:	2nd Intermediate					
LENGTH	1,943.00	BHA WT. AIR	238,000	BHA WT. MUD	204,000	HRS. ON JARS
ROT. WT.	238,000	P.U. WT.	280,000	S.O. WT.	195,000	12
TIME MADE UP	19:30	DATE MADE UP	3/28/2017	TIME PULLED	DATE PULLED	

[illegible]

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	11:00	5.0	Drilling	Drill ahead w/BHA #9 F/ 8479' - T/ 8643' (ROP down to 20 FPH, 85% Limestone, 15% Chert, trace Shale)	8479	8643
11:00	11:30	0.5	Cond Mud & Circ	Circulate, flow check, slug pipe	8643	8643
11:30	15:00	3.5	Trips	TOH for bit & motor change. Poor ROP , 85% Limestone & 15% chert.	8643	8643
15:00	18:00	3.0	Dir Work	Break bit, retrieve MWD., break motor sleeve, LD mud motor (Some drain 1-1/2 turns), 1/4" -1/2" play in bearings. (Bit graded 7-2-Rung out- CT-BT) Inspect UBHO sleeve, PU fresh mud motor, Halliburton 9-7/8" bit	8643	8643
18:00	19:00	1.0	Other	Wait on Wind Conditions	8643	8643
19:00	19:30	0.5	Dir Work	MU & RIH w/ BHA #10	8643	8643
19:30	23:00	3.5	Trips	TIH to shoe.	8643	8643
23:00	00:30	1.5	Cut off Drill Line	Slip & cut 118' of drill line.	8643	8643
00:30	01:30	1.0	Trips	TIH to whipstock	8643	8643
01:30	02:00	0.5	Cond Mud & Circ	Circ. BU & orientate tools to pass through whipstock..	8643	8643
02:00	03:30	1.5	Reaming	TIH, wash to bottom F/ 8581' - T/8638'	8643	8643
03:30	05:00	1.5	Other	Took 44 BBL initial gain while wasing to bottom – 70 BBL total after filling buster, SI well. SICP 50 / SIDPP 80 Circ at 50 spm for 6200 strks. Shut down pump, close choke, monitor pressures 10 min, SICP/SIDPP = 0.	8643	8643
05:00	05:30	0.5	Drilling	Washed / reamed to bottom F/ 8638' - T/8643'. Drill ahead w/BHA #10 F/ 8643' - T/8679' (ROP averaging 9 20 FPH, 80% Limestone, 15% Chert, 5% Shale) WOB 25 - 35 DIFF 175 - 200 gpm 700 Rot 40 - 50 PU 290 - SO 260 - Rot 270 TRQ 13K	8643	8679
05:30	06:00	0.5	Lubricate Rig	Rig Service		
TOTAL HRS		24.0				

TOTAL HRS		240					
WEATHER							
GEN. CONDITIONS:		Clear	WIND SPEED:	12	WIND DIRECTION:	W	TEMP: 53

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H										CONTRACTOR: Cactus										RIG: Cactus 137											
RPT DATE: March 30, 2017										SPUD DATE: 3/12/17					CASING					OD	WT	GRD	MD	TVD							
API #: 42475372040000										DFS: 18					Conductor					20			102	102							
										REPORT NO: 19					Surface					13-3/8	55	J55	1,208	1,208							
FIELD: Phantom (Wolfcamp)										DOL: 20					Intermediate					10-3/4	46	J55	5,008	4,995							
ELEV: 2,656					RKB: 25					LAST BOP TEST: 3/10/17																					
MD: 9,143					TVD: 9,126																										
24 HR FTG: 464					HRS DRLG: 10					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											
16:00	9.1	29.0	120.0	1	2	9.6	6	3	5	6	3	3	35,000		0.05	0.15	2,800		2.77												
												REDUCED PUMP RATES																			
												PUMP				SPM		PRESS		DEPTH											
												#1				40		380		8,100											
												#2				40		300		8,100											
BIT DATA																															
NO.		SIZE			MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP										
11		9.88			Ulterra		U513S		34806		7x11				8,866	9,143	277	4.0		64	69										
10		9.88			Halliburton		GTD55DM		12892403		7x11		N		8,679	8,866	187	5.1	35	60	37										
BIT NO.	10	INNER			7	OUTER		1	DULL		LN	LOC	N	SEAL	X	GAUGE	In	OTHER	WT	RP	ROP										
HYDRAULICS DATA																															
PUMP		MAKE			MODEL		LINER		STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP												
1		Hong Hua			HHF 1600		6.000		12.000	82	3969	715	4.18	95	9.18	230	509	387	1655												
2		Hong Hua			HHF 1600		6.000		12.000	82	3969	715	4.18	95	9.18	230	509	387	1655												
BHA																															
DESCRIPTION:				2nd Intermediate																											
LENGTH				2,133.09				BHA WT. AIR				310,000				BHA WT. MUD				266,000				HRS. ON JARS							
ROT. WT.				280,000				P.U. WT.				340,000				S.O. WT.				200,000				TORQUE				12			
TIME MADE UP				19:00				DATE MADE UP				3/29/2017				TIME PULLED								DATE PULLED							
SURVEY DATA																															
MD				ANGLE				AZIMUTH				TVD				N/S		COORDINATES				E/W		V. SECTION				DLS			
8,704				0.60				89.00				8,687				53.5		145.6						-10.6				0.1			
8,799				0.60				100.80				8,782				53.4		146.5						-10.2				0.1			
8,894				0.50				114.50				8,877				53.2		147.4						-9.7				0.2			
8,988				0.40				138.10				8,971				52.7		148.0						-9.1				0.2			
CONSUMABLES				DIESEL FUEL (gal) Rcvd/Used/On Hand:												DRILL H2O (gal) Rcvd/Used/On Hand:															
OPERATIONS TIME LOG																															
FROM		TO		HRS		CODE														Start MD		End MD									
06:00		11:00		5.0		Drilling		Drill ahead w/BHA #10 F/ 8,679' - T/ 8,866' ROP slowed to 14 FPH, decision to TOH prior to DBR'ing bit (ROP 37.4 FPH, 80% Limestone, 20% Chert) WOB 30 - 38 DIFF 100-200 gpm 700 Rot 35-43 Bit speed 99-105												8679		8866									
11:00		11:30		0.5		Cond Mud & Circ		Fil trip tank Flow check Slug pipe												8866		8866									
11:30		17:30		6.0		Trips		TOH for bit/BHA #10 change. MU, test & RIH with BHA #11.												8866		8866									
17:30		21:00		3.5		Trips		TIH, fill pipe every 30 stds to 6200'												8866		8866									
21:00		22:30		1.5		Cond Mud & Circ		CBU, Orientate tools to 198 deg.												8866		8866									
22:30		23:30		1.0		Trips		TIH to 8,866' and fan / circ. above bottom to remove possible debris (nozzle) left on bottom.												8866		8866									
23:30		00:00		0.5		Drilling		Drilled F/ 8,866' - T/ 8,877' WOB - 35K gpm - 500 Tot. RPM - 90.												8866		8877									
00:00		01:30		1.5		Other		SI well. Took 30 BBL gain. SICP/SIDPP = 0 psi												8877		8877									
01:30		06:00		4.5		Drilling		Drill 266' with average ROP 70 FPH from F/ 8,877' T/ 9,143' WOB: 35 - 40K gpm: 500 - 700 Tot. Bit RPM: 90 - 115 Lithology: 65% Limestone, 30% Chert, 5% Shale												8877		9143									

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H										CONTRACTOR: Cactus										RIG: Cactus 137			
RPT DATE: March 31, 2017										SPUD DATE: 3/12/17					CASING			OD	WT	GRD	MD	TVD	
API #: 42475372040000										DFS: 19					Conductor			20			102	102	
FIELD: Phantom (Wolfcamp)										REPORT NO: 20					Surface			13-3/8	55	J55	1,208	1,208	
ELEV: 2,656										DOL: 21					Intermediate			10-3/4	46	J55	5,008	4,995	
MD: 10,471										LAST BOP TEST: 3/10/17													
TVD: 10,471																							
24 HR FTG: 1,328										HRS DRLG: 22.5					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			
16:00	9.0	30.0	120.0	4	5	9.7	6	5	7	7	2	8	38,000		0.15	0.25	2,400		3.62				
												REDUCED PUMP RATES											
												PUMP		SPM		PRESS		DEPTH					
												#1		40		380		8,100					
												#2		40		300		8,100					
BIT DATA																							
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM	ROP			
11		9.88		Ulterra		U513S		34806		7x11				8,866	9,143	277	4.0		64	69			
10		9.88		Halliburton		GT055DM		12892403		7x11		N		8,679	8,866	187	5.1	35	60	37			
BIT NO.	10	INNER		7	OUTER		1	DULL	LN	LOC	N	SEAL	X	GAUGE	In	OTHER	WT	RP	ROP				
HYDRAULICS DATA																							
PUMP		MAKE		MODEL		LINER		STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP					
1		Hong Hua		HHF 1600		6.000		12.000	85	400	715	4.18	95	9.16	231	512	392	1594					
2		Hong Hua		HHF 1600		6.000		12.000	85	4000	715	4.18	95	9.16	231	512	392	1594					
BHA																							
DESCRIPTION:			2nd Intermediate																				
LENGTH			2,133.09		BHA WT. AIR			310,000			BHA WT. MUD			266,000			HRS. ON JARS						
ROT. WT.			280,000		P.U. WT.			340,000			S.O. WT.			200,000			TORQUE		12				
TIME MADE UP			19:00		DATE MADE UP			3/29/2017			TIME PULLED						DATE PULLED						
SURVEY DATA																							
MD				ANGLE			AZIMUTH			TVD			N/S		COORDINATES			E/W	V. SECTION		DLS		
10.032				0.20			275.40			10.015			54.2		156.8				-8.1		0.9		
10.127				0.80			286.60			10.110			54.4		156.0				-8.5		0.6		
10.222				1.20			273.30			10.205			54.8		154.6				-9.2		1.3		
10.316				1.80			249.70			10.299			54.3		152.3				-9.5		0.9		
CONSUMABLES				DIESEL FUEL (gal) Rcvd/Used/On Hand:																DRILL H2O (gal) Rcvd/Used/On Hand:			
OPERATIONS TIME LOG																							
FROM		TO		HRS		CODE														Start MD		End MD	
06:00		14:00		8.0		Drilling		Drill ahead 9-07/8" intermediate 2 w/ BHA # 11 and 9.00 ppg fluid. F/ 9143' T/ 9428' 285' @ 35.6 FPH WOB 35 GPM 699 TDU RPM 57 Bit speed 119 TRQ 16-17000												9143		9616	
14:00		14:30		0.5		Lubricate Rig		Service rig & equipment												9616		9428	
14:30		17:00		2.5		Drilling		Drill ahead 9-07/8" intermediate 2 w/ BHA # 11 and 9.00 ppg fluid. F/ 9428' T/ 9725' 297' @ 35.6 FPH WOB 35 GPM 699 TDU RPM 57 Bit speed 119 TRQ 16-17000												9428		9725	
17:00		17:30		0.5		Cond Mud & Circ		CO swabs #1 pump												9725		9725	
17:30		05:30		12.0		Drilling		Drill ahead 9-7/8" intermediate 2 w/ BHA # 11 and 9.00 ppg fluid. F/ 9725' T/ 10471' 746' @ 62.1 FPH WOB 35 GPM 699 TDU RPM 57 Bit speed 119 TRQ 16-17000												9725		10471	
05:30		06:00		0.5		Lubricate Rig		Service rig & equipment												10471		10471	



[illegible]

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus				RIG:		Cactus 137	
RPT DATE: April 3, 2017				SPUD DATE: 3/12/17		CASING		OD	WT	GRD	TVD
		API #:	42475372040000	DFS: 22		Conductor		20			102
				REPORT NO: 23		Surface		13-3/8	55	J55	1,208
FIELD: Phantom (Wolfcamp)				DOL: 24		Intermediate		10-3/4	46	J55	5,008
ELEV: 2,656		RKB:	25	LAST BOP TEST: 4/2/17							
MD: 10,635		TVD:	10,617								
24 HR FTG: 12		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	HTHF
18:00	12.3	59.0	4.0	3	4		1	4	6	7	15	7	9,000				1,600	63.00	8.10	
												REDUCED PUMP RATES								
												PUMP		SPM		PRESS		DEPTH		
												#1		40		380		8,100		
												#2		40		300		8,100		

BIT DATA														
NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP	
13	6.75	Ultrerra	U611S	34851	6x14		10,635							
12	6.75	Halliburton	MMD63C	12826153	6x14	N	10,623	10,635	12	1.0	20		12	
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	Hong Hua	HHF 1600	6.000	12.000	40	1450	256	2.906	95					
2	Hong Hua	HHF 1600	6.000	12.000		1450	256	2.906	95					

BHA						
DESCRIPTION:	Curve					
LENGTH	2,133.09	BHA WT. AIR	310,000	BHA WT. MUD	266,000	HRS. ON JARS
ROT. WT.	280,000	P.U. WT.	340,000	S.O. WT.	200,000	TORQUE
TIME MADE UP	19:00	DATE MADE UP	3/29/2017	TIME PULLED		DATE PULLED
						12

[illegible]

CONSUMABLES	DIESEL FUEL (gal) Rcvd/Used/On Hand:	DRILL H2O (gal) Rcvd/Used/On Hand:
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OPERATIONS TIME LOG

[illegible]

TOTAL HRS	16.5							
WEATHER								
GEN. CONDITIONS:	Clear	WIND SPEED:	9	WIND DIRECTION:	WSW	TEMP:	45	
COMMENTS:								



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DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus					RIG: Cactus 137			
RPT DATE: April 5, 2017				SPUD DATE: 3/12/17		CASING		OD	WT	GRD	MD	TVD
		API #:	42475372040000	DFS: 24		Conductor		20			102	102
				REPORT NO: 25		Surface		13-3/8	55	J55	1,208	1,208
FIELD: Phantom (Wolfcamp)				DOL: 26		Intermediate		10-3/4	46	J55	5,008	4,995
ELEV:	2,656	RKB:	25	LAST BOP TEST: 4/2/17								
MD:	11,905	TVD:	11,208									
24 HR FTG:	242	HRS DRLG:	5	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	12.4	53.0	2.0	4	5		1	5	7	9	16	6	15,000				20,000	61.00	12.25	

REDUCED PUMP RATES			
PUMP	SPM	PRESS	DEPTH
#1	40	920	11,771
#2	40	880	11,771

BIT DATA														
NO.		SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
14		6.75	Smith	MDI613LUEPXG	JM6071	6x14		11,663						
13		6.75	Ulterra	U611S	34851	6x14	N	10,635	11,663	1,028	18.0	20	274	57
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	Hong Hua	HHF 1600	6.000	12.000	51	3800	300	2.906	95	13.33	288	378	26	844
2	Hong Hua	HHF 1600	6.000	12.000	51	3800	300	2.906	95	13.33	288	378	26	844

BHA							
DESCRIPTION:	Curve						
LENGTH	7,565.54	BHA WT. AIR	205,000	BHA WT. MUD	269,000	HRS. ON JARS	
ROT. WT.	264,000	P.U. WT.	276,000	S.O. WT.	260,000	TORQUE	20
TIME MADE UP	21:00	DATE MADE UP	4/4/2017	TIME PULLED		DATE PULLED	

SURVEY DATA								
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
10,929	41.90	155.80	10,871	-77.2	168.1		121.2	2.8
10,960	42.50	154.60	10,894	-96.1	176.9		141.8	3.2
10,992	47.10	153.60	10,916	-116.4	186.7		164.1	14.5
11,023	55.20	152.30	10,936	-137.8	197.7		187.7	26.3

CONSUMABLES	DIESEL FUEL (gal) Rcvd/Used/On Hand:	DRILL H2O (gal) Rcvd/Used/On Hand:
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OPERATIONS TIME LOG

[illegible]

TOTAL HRS		24.0							
WEATHER									
GEN. CONDITIONS:		Clear		WIND SPEED:	6	WIND DIRECTION:	WNW	TEMP:	44
COMMENTS:									

DRILLING REPORT

WELL: UL Yankee Boy 18-17 1H				CONTRACTOR: Cactus				RIG: Cactus 137	
RPT DATE: April 6, 2017				SPUD DATE: 3/12/17		CASING	OD	WT	GRD
API #:		42475372040000		DFS: 25	Conductor	20			102
				REPORT NO: 26	Surface	13-3/8	55	J55	1,208
FIELD: Phantom (Wolfcamp)				DOL: 27	Intermediate	10-3/4	46	J55	5,008
ELEV:	2,656	RKB:	25	LAST BOP TEST: 4/2/17					
MD:	13,111	TVD:	11,173						
24 HR FTG:	1,206	HRS DRLG:	23.5	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	12.2	52.0	2.0	4	5		3	6	9	10	17	6	7,500				8,200	59.50	13.52		
												REDUCED PUMP RATES									
												PUMP		SPM		PRESS		DEPTH			
												#1		40		920		11,771			
												#2		40		880		11,771			

BIT DATA																																	
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		RE-RUN		IN	OUT	FEET	HRS	WOB	RPM		RQP												
14		6.75		Smith		MDI613LUEPXG		JM6071		6x14				11,663	13,111	1,448	23.5	30	207		62												
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	Hong Hua	HHF 1600	6.000	12.000	52	4000	300	2.906	95	13.18	287	448	25.7	844
2	Hong Hua	HHF 1600	6.000	12.000	52	4000	300	2.906	95	13.18	287	448	25.7	844

BHA							
DESCRIPTION:	Curve						
LENGTH	13,111.00	BHA WT. AIR	205,000	BHA WT. MUD	269,000	HRS. ON JARS	
ROT. WT.	264,000	P.U. WT.	276,000	S.O. WT.	260,000	TORQUE	20
TIME MADE UP	21:00	DATE MADE UP	4/4/2017	TIME PULLED		DATE PULLED	

SURVEY DATA								
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
12,653	93.40	157.40	11,189	-1,607.2	709.2		1,741.5	5.4
12,747	90.70	157.10	11,185	-1,693.8	745.5		1,834.9	2.9
12,840	95.80	163.70	11,180	-1,781.2	776.7		1,927.5	9.0
12,934	91.70	164.60	11,174	-1,871.4	802.3		2,021.3	4.5

CONSUMABLES	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	14:00	8.0	Drilling	Rot/slide 11,905'- 12,425' (520 @ 65 fph) 3,700 psi, 500 dif, 20 wob, rot 30,bit rpm 204 300 gpm, Torq 7,000	11905	12425
14:00	14:30	0.5	Repair Rig	Service Rig & Top drive	12425	12425
14:30	06:00	15.5	Drilling	Rot/slide 12,425'- 13,111' (686@ 44 fph) 3,700 psi, 500 dif, 20 wob, rot 30,bit rpm 204, 300 gpm, bit rpm	12425	12613
TOTAL HRS		24.0				

WEATHER							
GEN. CONDITIONS:	Clear	WIND SPEED:	Calm	WIND DIRECTION:	Calm	TEMP:	44