

Detailed Drilling Report											
Lease:	ULS 5-9 Unit 6			API #:	42-003-47556			Report #:	5		
Operator:	Zarvona Energy			Spud Date:	06/30/17			Report Date:	7/3/17		
GL	3,030	Depth (MD)	1,884	County	Andrews	Rig	Norton Rig #2		AFE #	NA 9-6-1	
KB-GL	17.0'	TVD	1,884	State	Texas	Toolpusher	Chris Castillo 806-6327105				
				Co Supv	DC Torres		Lupe Ramos 806-7772125				
				Co Supv	Ron Kidd						
PRESENT OPERATIONS											
Testing BOPE											
LAST 24 HOUR SUMMARY											
R/u pickup machine, M/U shoe track/ Run 13 3/8 csg to 1844', Circ B/u , Mix/pump cement Full returns got 144 bbls back to surface, float held, WOC, cut and drain conductor and 13.3/8 csg , install and weld on WH Test WH to 900 psi, NU Bop, Chg rams to 5", Test Bop											
DRILL PIPE							BHA				
# JTS	LENGTH	OD	WT	GRADE	CONN		EQUIPMENT		LENGTH		
35	1101.4	5	19.5	G-105	4.5IF		Bit		1.00		
									0.00		
							Mud Mtr		30.90		
							Shock Sub		13.19		
LAST CASING STRINGS							IBS		0.00		
SIZE	TOP	BOTTOM	WT	GRADE	CONN		6 X 8" DC		181.53		
20"	0	60'					XO		3.57		
13.375	0	1844	54.5	J-55	BTC		18 X 6.25DC		540.94		
							XO		2.09		
							338jnts 5" 19.5#/ft G-105 DP on Loc. (Norton)				
							TOTAL		773.22		
START TIME	END TIME	HOURS	NPT	DAILY OPERATIONS							
7:00	7:30	0.50		Rig up pickup machine., held JSA							
7:30	9:00	1.50		MU shoe jnt and pump thru, run 13.375" 54.5#/ft J-55 BTC to surface. Tag @ 1,794'							
9:00	10:00	1.00		Wash 50' to 1,844', Ttl csg ran 45 jnts, Shoe, 2jnts, FC, 43 jnts= 1848.24'. Shoe @ 1844' top FC @ 1758.73'							
10:00	12:00	2.00		CBU @ 1,844'. Rig down Csg tools., Cir WO BJ booster pump. Held PJSM							
12:00	3:00	3.00		Change lines, test lines to 2M psi, pump 40 bbls fresh water spacer. Lead cmt 1499sx 50:50 Poz premium plus C Cmt =470bbls @ 12.8ppg 2.77 yield 9.274 gals/sx. Tail cmt 451 sx premium plus C Cmt = 107 bbls @ 14.8ppg 1.33 yield 6.317 gals/sx. Had full returns, final cir pressure 490psi @ 3bpm bump plug @ 1443hr. with 960psi, floats holding, bleed back 2.5bbls. Cement returns to surface= 144 bbls							
3:00	7:00	4.00		PJSM, rig down BJ cmt lines, WO Cmt. Jet and clean mud pits.							
7:00	8:00	1.00		Cut and drain conductor and 13.375 csg lay down same							
8:00	10:00	2.00		Dress 13.375 csg , and Install 13 5/8 3M x 13.375 Sow Csg Head , and Test to 900 Psi Test good							
10:00	6:30	8.50		Stack BOP and NU Stack and change out pipe rams from 4" to 5" rams							
6:30	7:00	0.50		Function Test BOPE.							
				Bowspring Centralzations: 1822,1718,1594,1472,1349,1223,1101,978,855,732,610,487,364,241,159'							
TOTAL		24.0									
STRING WEIGHT		GAS		DIESEL (GAL)			TOTAL OBM LOSS		HYDRAULICS		
ROTATING		Bkgd Gas		Start	6412	Cuttings	0	Pump No.	No. 1	No. 2	
UP		Conn Gas		Received	0	Surface	0	Make/Model	PZ11	PZ11	
DOWN		Trip Gas		End	6015	Hole	0	SPR (SPM)			
TORQUE		Max Gas		Used	397	Centrifuge	0	@ # (psi)			
				Rate (\$/gal)	1.87			Stroke, in.	11	11	
				Total Cost (\$)	12973.45			Liner	6.5	6.5	
BIT RECORD			MUD					S.P.M.	85	85	
Number	1	2	Type		Solids				Rate, G.P.M.	770	770
Size, in.	17.5"	12.25	Time		O/W Cont.				Press, psi	1850	1850
Type	DF619	DF616X2-ER01	Company		Solids adj Salt						
Serial No.	13579	23490	FL Temp (deg F)		Alk P mud						
Jets, 32nds	9X20's	3x18 5x20	Depth		Lime						
W.O.B., lb.	10-20K		Density ppg	8.9	Salt						
R.P.M.	65		Viscosity		O/W Ratio						
Depth out, ft	1884		PV/YP		Chlorides						
Depth in, ft	77	1888	Gels: I/10		El. Stab						
Footage	1807		API W/L		WPS						
Hours	21	0	HTHP W/L								
Mfgr	Drilformance	Drilformance	Cake API/HTH								

Detailed Drilling Report													
Lease:		ULS 5-9 Unit 6			API #:		42-003-47556			Report #:		4	
Operator:		Zarvona Energy			Spud Date:		06/30/17			Report Date:		7/2/17	
GL	3,030	Depth (MD)	1,884	County	Andrews	Rig	Norton Rig #2			AFE #	NA 9-6-1		
KB-GL	17.0'	TVD	1,884	State	Texas	Toolpusher	Chris Castillo 806-6327105						
				Co Supv	DC Torres		Lupe Ramos 806-7772125						
				Co Supv	Ron Kidd								
PRESENT OPERATIONS													
Rig up Lewis pick up machine													
LAST 24 HOUR SUMMARY													
work on top drive , Drill to 1884 TD , Circ and pumps sweeps , short trip tight hole from 1414 to 782' back ream out , trip in , circ and pump sweeps , Trip out tight hole from 1789 to 1599 back ream , trip out from 1599 to surface no drag , clean rig floor and rig up casing tools w.o pickup machine , r/u same													
DRILL PIPE							BHA						
# JTS	LENGTH	OD	WT	GRADE	CONN		EQUIPMENT				LENGTH		
35	1101.4	5	19.5	G-105	4.5IF		Bit				1.00		
							Bit Sub				1.40		
							Mud Mtr				30.90		
							Shock Sub				13.19		
LAST CASING STRINGS							IBS				7.98		
SIZE	TOP	BOTTOM	WT	GRADE	CONN		6 X 8" DC				181.53		
20"	0	60'					XO				3.57		
							18 X 6.25DC				540.94		
							XO				2.09		
							TOTAL				782.6		
START TIME	END TIME	HOURS	NPT	DAILY OPERATIONS									
7:00	11:00	4.00	TDS	Troubleshoot TDS, will not rotate. WO Norton electrician. Repair loose 20pin connection on TDS.									
11:00	15:30	4.50		Drill ahead f/1,535' t/ TD 1,884', pump sweep.									
15:30	17:00	1.50		CBU pump 2 hi-vis sweeps, cir hole clean.									
17:00	19:00	2.00		Trip out , Tight hole from 1414' to 782 @ BHA 50+k over pull , back ream from 1414' to 782'									
19:00	20:30	1.50		Ream back in hole from 782' to 1414' , trip in from 1414 to 1884' , Had 60' of fill on bottom.									
20:30	23:00	2.50		Circ and mix / Pump 60 bbls sweep and Circ hole clean, and spot a 50 hi-vis pill on bottom.									
23:00	2:00	3.00		Trip out tight hole from 1789' to 1599' back ream / packing off , pulling free from 1599 to surface									
2:00	3:00	1.00		Lay stb , bit , bit sub , stand back motor									
3:00	4:00	1.00		Clean rig floor / change out rig elevator									
4:00	6:30	2.50		WO Byrd pickup machine. (R/U csg crew)									
6:30	7:00	0.50		Rig up Lewis pick up machine									
				Notify TRRC on up coming casing run / cement job (Sandy Operator # 5 @ 7:30 pm)									
TOTAL		24.0		338 jnts 5" 19.5#/ft G-105 DP on location									
STRING WEIGHT		GAS		DIESEL (GAL)			TOTAL OBM LOSS		HYDRAULICS				
ROTATING		Bkgd Gas		Start	7666	Cuttings	0	Pump No.	No. 1	No. 2			
UP		Conn Gas		Received	0	Surface	0	Make/Model	PZ11	PZ11			
DOWN		Trip Gas		End	6412	Hole	0	SPR (SPM)					
TORQUE		Max Gas		Used	1254	Centrifuge	0	@ # (psi)					
				Rate (\$/gal)	1.87			Stroke, in.	11	11			
				Total Cost (\$)	12973.45			Liner	6.5	6.5			
BIT RECORD			MUD					S.P.M.	85	85			
Number	1		Type		Solids				Rate, G.P.M.	770	770		
Size, in.	17.5"		Time		O/W Cont.				Press, psi	1850	1850		
Type	DF619		Company		Solids adj Salt								
Serial No.	13579		FL Temp (deg F)		Alk P mud								
Jets, 32nds	9X20's		Depth		Lime								
W.O.B., lb.	10-20K		Density ppg	8.9	Salt								
R.P.M.	65		Viscosity		O/W Ratio								
Depth out, ft	1884		PV/YP		Chlorides								
Depth in, ft	77		Gels: I/10		El. Stab								
Footage	1807		API W/L		WPS								
Hours	21		HTHP W/L										
Mfgr	Drilformance		Cake API/HTH										

Detailed Drilling Report													
Lease:		ULS 5-9 Unit 6			API #:		42-003-47556			Report #:		3	
Operator:		Zarvona Energy			Spud Date:		06/30/17			Report Date:		7/1/17	
GL	3,030	Depth (MD)	1,535	County	Andrews	Rig	Norton Rig #2			AFE #	NA 9-6-1		
KB-GL	17.0'	TVD	1,535	State	Texas	Toolpusher	Chris Castillo 806-6327105						
				Co Supv	DC Torres		Lupe Ramos 806-7772125						
				Co Supv	Ron Kidd								
PRESENT OPERATIONS													
Working On TDS.													
LAST 24 HOUR SUMMARY													
Repair rig, P/U and M/U BHA, Spud well @ 1130. Drill f/77' to 1059' , Chg out elevator / saver sub , Drill to 1059 , Run Servey , Drill to 1100' , Work on transfer pump , Drill to 1535'													
DRILL PIPE							BHA						
# JTS	LENGTH	OD	WT	GRADE	CONN		EQUIPMENT				LENGTH		
24	753	5	19.5	G-105	4.5IF		Bit				1.00		
							Bit Sub				1.40		
							Mud Mtr				30.90		
							Shock Sub				13.19		
LAST CASING STRINGS							IBS				7.98		
SIZE	TOP	BOTTOM	WT	GRADE	CONN		6 X 8" DC				181.53		
20"	0	60'					XO				3.57		
							18 X 6.25DC				540.94		
							XO				2.09		
							TOTAL				782.6		
START TIME	END TIME	HOURS	NPT	DAILY OPERATIONS									
7:00	8:30	1.50		Repair TDS gripper box.									
8:30	10:00	1.50		Repair leak on Drawworks water spear.									
10:00	11:30	1.50		Pick up and M/U mud Mtr and surface test, M/U bit, IBS and shock sub.									
11:30	10:00	10.50		Tagged @ 77' (RKB 17'), Spud well 6/30/17 @ 11:30 AM, Drlg f/77' to 782'									
10:00	23:00	1.00		Circ and change out Rig elevator inserts from 4.1/2 to 5" drill pipe and change out top drive saver sub from 4.1/2 xh to 4.1/2 if.									
23:00	23:30	0.50		Drill from 782' to 1059'									
23:30	12:00	0.50		Circ for 15 min. and Run survey 1/2									
12:00	0:30	0.50		Drill from 1059' to 1100' (Reserve pit Transfer pump went down)									
0:30	1:30	1.00		Work on transfer pump. Need to get a electrician , Rig up hoses to mud pit pumps , fill mud tanks back up with water									
1:30	6:30	5.00		Drill from 1120' to 1535'									
6:30	7:00	0.50	TDS	Made connection @ 1535' and TDS would not rotate, CBU @ 770 gpm, cir @ 400gpm while working on TD									
TOTAL		24.0		338 jnts 5" 19.5#/ft G-105 DP on location									
STRING WEIGHT		GAS		DIESEL (GAL)			TOTAL OBM LOSS		HYDRAULICS				
ROTATING		Bkgd Gas		Start	8659	Cuttings	0	Pump No.	No. 1	No. 2			
UP		Conn Gas		Received	0	Surface	0	Make/Model	PZ11	PZ11			
DOWN		Trip Gas		End	7666	Hole	0	SPR (SPM)					
TORQUE		Max Gas		Used	993	Centrifuge	0	@ # (psi)					
				Rate (\$/gal)	1.87			Stroke, in.	11	11			
				Total Cost (\$)	12973.45			Liner	6.5	6.5			
BIT RECORD			MUD					S.P.M.	85	85			
Number	1		Type		Solids				Rate, G.P.M.	770	770		
Size, in.	17.5"		Time		O/W Cont.				Press, psi	1850	1850		
Type	DF619		Company		Solids adj Salt								
Serial No.	13579		FL Temp (deg F)		Alk P mud								
Jets, 32nds	9X20's		Depth		Lime								
W.O.B., lb.	10-20K		Density ppg	8.9	Salt								
R.P.M.	65		Viscosity		O/W Ratio								
Depth out, ft			PV/YP		Chlorides								
Depth in, ft	77		Gels: l/10		El. Stab								
Footage	1458		API W/L		WPS								
Hours	16.5		HTHP W/L										
Mfgr	Drilformance		Cake API/HTH										

Detailed Drilling Report													
Lease:		ULS 5-9 Unit 6			API #:		42-003-47556			Report #:		2	
Operator:		Zarvona Energy			Spud Date:					Report Date:		6/30/17	
GL	3,030	Depth (MD)	60	County	Andrews	Rig	Norton Rig #2			AFE #	NA 9-6-1		
KB-GL	17.0'	TVD	60	State	Texas	Toolpusher	Chris Castillo 806-6327105						
				Co Supv	DC Torres		Lupe Ramos 806-7772125						
				Co Supv	Ron Kidd								
PRESENT OPERATIONS													
SLM BHA													
LAST 24 HOUR SUMMARY													
Finish moving in, R/U and raised derrick. R/U rig floor, TDS, N/U conductor pipe.													
DRILL PIPE							BHA						
# JTS	LENGTH	OD	WT	GRADE	CONN		EQUIPMENT				LENGTH		
							Bit				1.00		
							Bit Sub				1.40		
							Mud Mtr				30.90		
							Shock Sub				13.19		
LAST CASING STRINGS							IBS				7.98		
SIZE	TOP	BOTTOM	WT	GRADE	CONN		6 X 8" DC						
20"	0	60'					XO				3.57		
							18 X 6.25DC						
							XO				2.09		
							TOTAL				60.13		
START TIME	END TIME	HOURS	NPT	DAILY OPERATIONS									
7:00	7:00	24.00		Finish moving in, R/U and P/U derick @ 1200, R/U floor, MP's, pits, R/U TDS and function test. Fill pits with water, R/U SS slides and dump lines, N/U conductor pipe, SLM BHA									
7:00													
0:00													
0:00													
0:00													
0:00													
0:00													
0:00													
TOTAL		24.0											
STRING WEIGHT		GAS		DIESEL (GAL)			TOTAL OBM LOSS		HYDRAULICS				
ROTATING		Bkgd Gas		Start	1985	Cuttings	0	Pump No.	No. 1	No. 2			
UP		Conn Gas		Received	6800	Surface	0	Make/Model	PZ11	PZ11			
DOWN		Trip Gas		End	8785	Hole	0	SPR (SPM)					
TORQUE		Max Gas		Used	126	Centrifuge	0	@ # (psi)					
				Rate (\$/gal)	1.87			Stroke, in.	11	11			
				Total Cost (\$)	12973.45			Liner	6.5	6.5			
BIT RECORD				MUD				S.P.M.					
Number	1		Type		Solids				Rate, G.P.M.				
Size, in.	17.5"		Time		O/W Cont.				Press, psi				
Type	DF619		Company		Solids adj Salt								
Serial No.	13579		FL Temp (deg F)		Alk P mud								
Jets, 32nds	9X20's		Depth		Lime								
W.O.B., lb.			Density ppg		Salt								
R.P.M.			Viscosity		O/W Ratio								
Depth out, ft			PV/YP		Chlorides								
Depth in, ft			Gels: I/10		El. Stab								
Footage			API W/L		WPS								
Hours			HTHP W/L										
Mfgr			Cake API/HTH										

Detailed Drilling Report											
Lease:		ULS 5-9 Unit 6			API #:		42-003-47556		Report #:		1
Operator:		Zarvona Energy			Spud Date:				Report Date:		6/29/17
GL	3,030	Depth (MD)	60	County	Andrews	Rig	Norton Rig #2		AFE #	NA-9-5-1	
KB-GL	17.0'	TVD	60	State	Texas	Toolpusher	Chris Castillo 806-6327105				
				Co Supv			Lupe Ramos 806-7772125				
				Co Supv	DC Torres						
PRESENT OPERATIONS											
MI and RU											
LAST 24 HOUR SUMMARY											
MOB rig to location, spot substructure and rig up.											
DRILL PIPE							BHA				
# JTS	LENGTH	OD	WT	GRADE	CONN		EQUIPMENT		LENGTH		
LAST CASING STRINGS											
SIZE	TOP	BOTTOM	WT	GRADE	CONN						
20"	0	60'									
							TOTAL		--		
START TIME	END TIME	HOURS	NPT	DAILY OPERATIONS							
7:00	7:00	24.00		6/28/2017, MI and RU, 1st load on location @ 10:00, set mud pits. Crane @ 1500, substructure @ 1815, Spot and center substructure, pin derrick. Shut down @ 2130. No men working							
		0.00									
		0.00									
		0.00									
		0.00									
		0.00									
		0.00									
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		0.00									
		0.00									
		0.00									
		0.00									
		0.00									
TOTAL		24.0									
STRING WEIGHT		GAS		DIESEL (GAL)			TOTAL OBM LOSS		HYDRAULICS		
ROTATING		Bkgd Gas		Start		0	Cuttings		Pump No.	No. 1	No. 2
UP		Conn Gas		Received		0	Surface	20	Make/Model	PZ11	PZ11
DOWN		Trip Gas		End		0	Hole	0	SPR (SPM)		
TORQUE		Max Gas		Used		0	Centrifuge	0	@ # (psi)		
				Rate (\$/gal)					Stroke, in.	11	11
				Total Cost (\$)					Liner	6.5	6.5
BIT RECORD			MUD						S.P.M.		
Number	1		Type		Solids				Rate, G.P.M.		
Size, in.	17.5		Time		O/W Cont.				Press, psi		
Type	DF619		Company		Solids adj Salt						
Serial No.	13579		FL Temp (deg F)		Alk P mud						
Jets, 32nds	9X20's		Depth		Lime						
W.O.B., lb.			Density ppg		Salt						
R.P.M.			Viscosity		O/W Ratio						
Depth out, ft			PV/YP		Chlorides						
Depth in, ft			Gels: l/10		El. Stab						
Footage			API W/L		WPS						
Hours			HTHP W/L								
Mfgr			Cake API/HTH								