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Detailed Drilling Report									
Lease: UL 1-3-3H				API #: 42-003-47874				Report #: 3	
Operator: Zarvona Energy				Spud Date:				Report Date: 11/27/18	
GL	3,108	Depth (MD)	80	County	Andrews	Rig	Sendero Rig #15	AFE #	SA 1-3-3H
KB-GL	26	TVD	80	State	Texas	Toolpusher	Rene Samora 325-4501134	JOB#	xxxxxx
				Co Supv	DC Torres				
				Co Supv	Tino Garza				
PRESENT OPERATIONS									
Rigging up.									
Rig down, move in and rig up.									
							BHA		
# JTS	LENGTH	OD	WT	GRADE	CONN		EQUIPMENT		LENGTH
LAST CASING STRINGS									
SIZE	TOP	BOTTOM	WT	GRADE	CONN				
20"	0	80							

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Detailed Drilling Report

Lease:UL 1-3-3H

Operator:Zarvona Energy

API #:42-003-47874

Spud Date:11/28/18

Report #:8

Report Date:12/2/18

GL3,108Depth (MD)1,862CountyAndrewsRigSendero Rig #15AFE #SA 1-3-3H

KB-GL26TVD1,862StateTexasToolpusherRene Samora 325-4501134JOB#156535

Co SupvSC VelazquezTony Mitchell 325-277-1225

Co SupvSpike Alaniz

PRESENT OPERATIONS

Slide and rotate drill f/1760' to 1852'

Finish NU BOPs,install flowline,Turnbuckles,RU 4" choke line to manifold,Test blind rams& choke valves to 1500-psi,Test ok,Finish RU back yard,RU panic lines & booeey lines,MU DDR-tools,Orient & test MWD,MU bit # 2,TIH w/6 1/4 DC,PU 3 more DC,Tih w/5" DP to 1583,Slip and cut drill-line,Circ,test top pipe rams to 1500 psi-ok,Test Hydrill to 1000 psi.ok,Attempt to level derrick found back jack driller side not working,Remove trip nipple and install Rt-head,Drill Fit-collar and cement,Attempt to make a connection slips would not set,Repair back jack and level derrick correctly,Continue drill cement and csg-shoe,Rotate and slide drill f/1760 to 1852' (92 ft. @ 36 fph).

# JTSLENGTHODWTGRADECONN

281266519.5S-1354 1/2 if

BHA

EQUIPMENTLENGTH

BIT 8.5" HALCO,GT65D, TFA: 1.4911.00

PRK CTY MTR 6.5,7/8,6.0,FBH, 8 UBHS, 1.83", 0.2631.93

Cougar SHOCK SUB12.06

NORTRK,STB 4 blade 8"6.21

NMPC9.76

UBHO SUB2.96

NMDC29.47

NORTRK,STB 4 blade 8"6.06

NMDC29.45

(15) 6.1/4 DC's436.69

XO2.37

TOTAL567.96

START TIMEEND TIMEHOURS

6:007:301.50

7:308:000.50

8:0014:006.00

14:0016:002.00

16:0018:302.50

18:3020:001.50

20:0021:301.50

21:3022:301.00

22:3023:301.00

23:300:301.00

0:303:002.50

3:003:300.50

3:304:301.00

4:306:001.50

TOTAL24.0

NPT

DAILY OPERATIONS

Dress BOP stack.Install flowline, turnbuckles and connect 4" choke line to manifold.

Pressure up and body test blind & choke valves to 1500 psi. OK.

Rig up steel water & OBM transfer lines.Rig up overflow lines.(knocked down by high winds). Connect poly transfer lines to OBM frack tanks.Connect choke panic & boeey line.L/D casing tools from floor & R/U rig elevators.Set directional tools on catwalk.

Pick up directional BHA , Mud MTR,7/8, 6.0 FBH 1.83" w/ 8" UBHS , Shock sub , Stb-8" , NMPC , UBHO Sub , NMDC-MWD , Stb-8" , NMDC -Orient & test MWD / Motor , Make up Bit # 2.

RIH with 6-1/4 BHA. P/U 3 more joints of DC.TIH with 5" DP to 1593'.

Slip and cut drlg-line.Adjust kick back rollers on DW

Circ.Test Top pipe arms to 1500 psi-ok,Test Hydrill 1000 psi-ok test.

Attempt to level derrick,Found back jack on drillers side not working

Remove trip nipple and install rotate-head.

Drill Float collar and cement. Attempt to make a connection.Slips would not set.

Repair back jack and level derrick correctly

Continue drill cement and Csg shoe,Ream to btm @ 1760'

Rotate drill f/1,760' to 1827'(67 FT.@ 67 fph)WOB 10k,RPM 40, 8K Torque, SPM 120,SPP 1080, ,Diff -250,GPM-435.

Slide Drill f/1,827" to 1,852' (25' @ 16 fph)WOB 10, SPM 120,SPP-1038, Diff -90,GPM-435,TF.

STRING WEIGHTGAS9371TOTAL OBM LOSSHYDRAULICS

ROTATINGBkgd GasStart11953Cuttings0Pump No.0

UPConn GasReceived5900Surface0Make/ModelFB-1600

DOWNTrip GasEnd10715Hole0SPR (SPM)

TORQUEMax GasUsed1238Centrifuge0@ # (psi)

Rate (\$/gal)\$2.29Stroke, in.12"

Total Cost (\$)\$30,356.00Liner / gal sks5.5

BIT RECORDMUD

Number2TypeWBSolids

Size, in.8.5TimeO/W Cont.

TypeGT65DCompanyO/W Ratio

codeFL Temp (deg F)Alk P mud

Serial No.13023820DepthLime

Jets, 32nds6 x 18Density ppgSalt

W.O.B., lb.Viscosity600/300

R.P.M.PV/YPChlorides

Depth out, ftGels: 1/10El. Stab

Depth in, ft1760API W/LWPS

Footage92HTHP W/LCalcium

Hours2.5Cake API/HTH

MfgrHalliburtonPHLGS

Notes

Days Crew:6BOP DRILLS

Nights Crew:5BOP DRILLS

Days from spud:3



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Detailed Drilling Report									
Lease: UL 1-3-3H Operator: Zarvona Energy				API #: 42-003-47874 Spud Date: 11/28/18				Report #: 10 Report Date: 12/4/18	
GL	3,108	Depth (MD)	6,041	County	Andrews	Rig	Sendero Rig #15	AFE #	SA 1-3-3H
KB-GL	26	TVD	5,988	State	Texas	Toolpusher	Rene Samora 325-4501134	JOB#	156535
				Co Supv	SC Velazquez		Tony Mitchell 325-277-1225		
				Co Supv	Spike Alaniz				
PRESENT OPERATIONS									
Repair ST-80									
Slide and rotate tangent section f/4,908' to 6,041'. Displaced well with 9.2 PPG OBM. Mud motor locking up.POOH.Circ btms-up,Mix & pumps sluh,PooH,re level derrick over the hole,Finish PooH work Bha,MU new Mud-Mtr,RR #2 bit,Function test MWD tool Ok test,MU Bha Dc,Repair ST-80,									
							BHA		
# JTS	LENGTH	OD	WT	GRADE	CONN		EQUIPMENT		LENGTH
120	5541	5	19.5	S-135	4 1/2 if		BIT 8.5" HALCO,GT65D, TFA: 1.491		1.00
							PRK CTY MTR 6.5,7/8,6.0,FBH, 8 UBHS, 1.83", 0.26		31.93
							Cougar SHOCK SUB		12.06
							NORTRK,STB 4 blade 8"		6.21
LAST CASING STRINGS							NMPC		
SIZE	TOP	BOTTOM	WT	GRADE	CONN		UBHO SUB		2.96
20"	0	80					NMDC		29.47
9.625	0	1719	43.5	HCL 80	BTC		NORTRK,STB 4 blade 8"		6.06
							NMDC		29.45
							(15) 6.1/4 DC's		436.69
							XO		2.37
							TOTAL		567.96
START TIME	END TIME	HOURS	NPT	DAILY OPERATIONS					
6:00	12:00	6.00		Rotate & Slide drill tangent section f/ 4,908' to 5,858"( 950 FT.@ 158 fph) WOB19-25k,RPM 0-65, 11.5k Torque, SPM 160,SPP 3500, Diff 300-450,GPM-550, MW-9.95. 1 soap/1 sap every 2nd connection.Delayed displacement @ 5500' due to bad valve at mud tanks that started to leak. Repaired same.					
12:00	13:00	1.00		Displaced well with 9.0+ OBM. 55% washout noticed on total displacement. Calculated strokes were 4400 & OBM returned at 6800 strokes.					
13:00	14:00	1.00		Rotate & Slide drill tangent section f/ 5,858" to 5,911"( 53 FT.@ 70 fph) WOB19-25k,RPM 0-65, 12.5k Torque, SPM 150,SPP 3400, Diff 300-400,GPM-525, MW-9.2+.					
14:00	14:30	0.50		Rig Service					
14:30	15:30	1.00		Rotate drill tangent section f/ 5,911" to 6,027"( 116 FT.@ 116 fph) WOB20-25k,RPM 65, 12.5k Torque, SPM 150,SPP 3500, Diff 300-450,GPM-525. MW-9.2+.					
15:30	16:00	0.50		Slide Drill f/6,027" to 6,041"( 14' @ 28 fph)WOB 13k, SPM 155,SPP-3275, Diff -95,GPM-545,TF 90R					
16:00	18:00	2.00	AIM	After slide SPP increased to 4500 psi.Check surface equipment.OK. Appears mud motor locking up.Circulate and build slug. Fill trip tank. Pump slug.					
18:00	19:00	1.00	Sendero	Install 2" fill upline f/trip tank to Bop stack and install 4" drian line to flowline f/mud bucket.					
19:00	23:30	4.50	AIM	PooH work through tight spot @5998"Max drag 50k PooH normal drag 5/10k					
23:30	0:00	0.50	Sendero	Center sub over the hole have problems setting slips.					
0:00	1:00	1.00	AIM	Continue pooH.					
1:00	2:00	1.00	AIM	L/D Mud-mtr and break bit#2. Found Mud-mtr damaged					
2:00	4:00	2.00	AIM	M/U new mud-mtr & RR#2 Bit,Scribe,Set mud shoe,Install MWD,Function Test Good,MU BHA DC					
4:00	4:30	0.50	AIM	Rig Service					
4:30	6:00	1.50	Sendero	Repair Hyrulic hose on ST-80					
TOTAL		24.0							
STRING WEIGHT		GAS		9371		TOTAL OBM LOSS		HYDRAULICS	
ROTATING	145k	Bigd Gas		Start		8812	Cuttings	0	Pump No.
UP	150k	Conn Gas		Received			Surface	0	Make/Model
DOWN	140	Trip Gas		End		7069	Hole	0	No. 1
TORQUE	10k	Max Gas		Used		1743	Centrifuge	0	No. 2/ No. 3
				Rate (5/gal)					@ # (psi)
				Total Cost (\$)		\$30,356.00			Stroke, in.
BIT RECORD				MUD					Liner / gal sks
Number	2	RR-2	Type	OBM	Solids				S.P.M.
Size, in.	8.5	8.5	Time		O/W Cont.				80
Type	GT65D	GT65D	Company	AES	O/W Ratio				8 P.G.P.M.
code			FL Temp (deg F)	88	Aik P mud				Press, psi
Serial No.	13023820	13023820	Depth	6041	Lime				12"</

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Detailed Drilling Report									
Lease: UL 1-3-3H Operator: Zarvona Energy				API #: 42-003-47874 Spud Date: 11/28/18				Report #: 16 Report Date: 12/10/18	
GL	3,108	Depth (MD)	9,950'	County	Andrews	Rig	Sendero Rig #15	AFE #	SA 1-3-3H
KB-GL	26	TVD	9,909	State	Texas	Toolpusher	Rene Samora 325-4501134	JOB#	156535
				Co Supv	SC Velazquez		Tony Mitchell 325-277-1225		
				Co Supv	Tino Garza				
PRESENT OPERATIONS									
cementing 7" Intermediate csg. First stage.									
Fin/ P.O.O.H. L/D Directional tools. Clean rig floor,PJSM,w/ csg crew & L/D personal. R/U same. P/U & R.I.H. W/ 7" Intermediate csg. R/U BJ. Circ. Capacity of csg.@ 4 bph while BJ. Mixing spacer. Swift lines to BJ. And circ.									
						BHA			
# JTS	LENGTH	OD	WT	GRADE	CONN	EQUIPMENT			LENGTH
204	9418	5	19.5	S-135	4 1/2 if				
LAST CASING STRINGS									
SIZE	TOP	BOTTOM	WT	GRADE	CONN				
20"	0	80							
9.625	0	1719	43.5	HCL 80	BTC				
						TOTAL			
						--			
START TIME	END TIME	HOURS	NPT	DAILY OPERATIONS					
6:00	9:00	3.00		P.O.O.H. to run 7" Interm. Csg. (SLM).					
9:00	10:00	1.00		Break #3 bit & L/D AIM directional tools.					
10:00	10:30	0.50		Clear & clean rig floor.					
10:30	12:00	1.50		PJSM with Smith casing crews & R/U L/D machine and 7" casing tools.					
12:00	18:00	6.00		M/U auto fill float equipment. Check same with Weatherford. Run 7" , 29.0#, HCP 110, BTC intermediate casing to 4,607'. Average out torque M/U with 7,000#' to base of Δ. At 2,200' auto fill stopped functioning. Attempt to open by circulating. No good. Continue RIH with casing @ 70 FPM. Fill pipe every 35 joints. Good returns. P/U DV tool at 4,410'.					
18:00	1:00	7.00		Continue R.I.H. W/ 7" inter. Csg. w/ good return to 9937'. BS centralizers every third joint.					
1:00	1:30	0.50		PJSM W/ BJ Services. R/U cement head w/ iron. R/D Csg & L/D Machine.					
1:30	5:00	3.50		Brk circ. Slow and work up to 4 bpm. 420 psi. BJ Services mixing spacer while circ. NOTE: BJ having trouble mixing spacer.					
5:00	6:00	1.00		Swift line to BJ. Brk circ. w/ 2 bbls. Close valve and tested lines to 4800#. Ok, pump rest of spacer 38bbls. Lead cmt 311 sk, tails89 sks. First stage.					



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