

Well Name UL 10 RAVEN 1H	API/UWI 42-003-47813	Acquisition Name Shafter Lake	Operator Lime Rock Resources IV-A, LP	County Andrews	State/Province Texas
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Original Hole, 9/24/2018 8:00:00 PM

Directional schematic (actual)

Equipment Type ESP Pump	Item Description ESP - Pump	OD Nominal (in) 4	Length (ft) 22.30
Equipment Type ESP Pump	Item Description ESP - Pump	OD Nominal (in) 4	Length (ft) 21.80
Equipment Type ESP Pump	Item Description ESP - Pump	OD Nominal (in) 4	Length (ft) 21.80
Equipment Type ESP Pump	Item Description ESP - Pump (AGH) Gas Handler	OD Nominal (in) 4	Length (ft) 6.60

Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (ftKB)
Conductor	19	87.50	J-55	LT&C	90.0
Surface	9 5/8	36.00	J-55	Buttress Thread	1,660.0
Production	5 1/2	20.00	N-80	LT&C	8,533.0

Date 6/15/2018	Point or Interval Point	Type Kick Off	Subtype 1	Top Depth (ft... 3,408.0
Date 6/15/2018	Point or Interval Point	Type Top Of Tangent	Subtype 2	Top Depth (ft... 4,038.0
Date 6/16/2018	Point or Interval Point	Type Bottom of Tangent	Subtype	Top Depth (ft... 4,210.0
Date 6/16/2018	Point or Interval Point	Type Toe	Subtype	Top Depth (ft... 4,729.0

Date	Type	Depth (ftKB)	Depth (TV...)	Measurement Method
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Section Description	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Act Top (TV...)	Act Btm (TV...)
Production	8 3/4	1,660.0	8,533.0	1,659.9	4,267.6

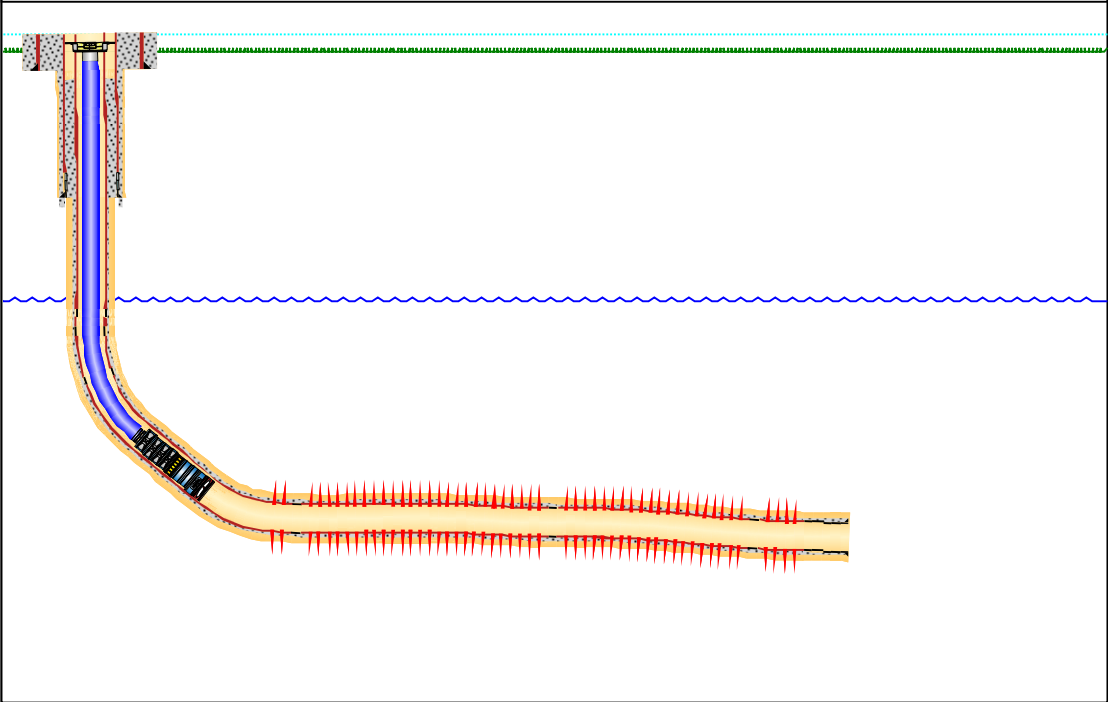
Tubing Description Production Tubing	Run Date 9/24/2018	String Length (ft) 4,189.11	Set Depth (ftKB) 4,206.1				
Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)
Tubing Hanger	1			7			0.50
Tubing Pup Joint (New) IPC	1			2 7/8			4.00
Tubing (New) IPC	125		T&C Upset	2 7/8	6.50	J-55	4,058 .60
Pump Seating Nipple (New) Nickel Coated	1			2 7/8	6.50	J-55	1.10
ESP - Pump	1			4			22.30
ESP - Pump	1			4			21.80
ESP - Pump	1			4			21.80
ESP - Pump (AGH) Gas Handler	1			4			6.60
ESP - Intake	2			4			3.40
ESP - Protector (Seal)	1			4			8.10
ESP - Lower Protector (Seal)	1			4			8.10
ESP - Motor	1			4.56			31.70
ESP - Sensor	1			4.56			1.11

Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)				
Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)

Schematic

Original Hole, 9/24/2018 8:00:00 PM

Directional schematic (actual)



Perforations

Date	Top (ftKB)	Btm (ftKB)	Linked Zone
7/9/2018	4,708.0	4,711.0	
7/9/2018	4,857.0	4,860.0	
7/9/2018	5,006.0	5,009.0	
7/9/2018	5,155.0	5,158.0	
7/9/2018	5,304.0	5,307.0	
7/9/2018	5,453.0	5,456.0	
7/9/2018	5,602.0	5,605.0	
7/9/2018	5,751.0	5,754.0	
7/9/2018	5,900.0	5,903.0	
7/8/2018	6,049.0	6,052.0	
7/8/2018	6,198.0	6,201.0	
7/8/2018	6,347.0	6,350.0	
7/8/2018	6,496.0	6,499.0	
7/8/2018	6,650.0	6,653.0	
7/8/2018	6,799.0	6,802.0	
7/8/2018	6,943.0	6,946.0	
7/8/2018	7,092.0	7,095.0	
7/8/2018	7,241.0	7,244.0	
7/7/2018	7,395.0	7,398.0	
7/7/2018	7,539.0	7,542.0	
7/7/2018	7,682.0	7,685.0	
7/5/2018	7,837.0	7,840.0	
7/5/2018	7,991.0	7,994.0	
7/3/2018	8,135.0	8,138.0	
7/3/2018	8,284.0	8,287.0	
7/3/2018	8,433.0	8,436.0	