

Well Name	API/UWI	Acquisition Name	Operator	County	State/Province
UL 10 NELSON 3H	42-003-47550	Shafter Lake	Lime Rock Resources Fund IV	Andrews	Texas

Original Hole, 5/25/2018 8:00:00 PM

Directional schematic (actual)

This diagram shows a wellbore that is initially vertical and then turns 90 degrees to become horizontal. The horizontal section is filled with orange fluid and has red spikes indicating pressure or flow. The vertical section is filled with blue fluid. A blue wavy line represents the water table. The well is surrounded by a grey rock formation.

Equipment Type ESP Pump	Item Description ESP - Pump	OD Nominal (in) 4	Length (ft) 7.77
Equipment Type ESP Pump	Item Description ESP - Pump	OD Nominal (in) 4	Length (ft) 21.82
Equipment Type ESP Pump	Item Description ESP - Pump	OD Nominal (in) 4	Length (ft) 21.82
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Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (ftKB)
Conductor	18 5/8	87.50	H-40	ST&C	90.0
Surface	8 5/8	36.00	J-55	ST&C	1,580.0
Production	5 1/2	23.00	L-80	Buttress Thread	8,903.0

Date	Point or Interval	Type	Subtype	Top Depth (ft...)
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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	7 7/8	1,580.0	8,903.0	1,580.0	4,564.8

Tubing Description Production Tubing	Run Date 5/25/2018	String Length (ft) 4,570.36	Set Depth (ftKB) 4,591.4				
Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)
Tubing/ IPC	137		T&C Upset	2 7/8	6.50	L-80	4,443 .60
Pump Seating Nipple	1			2 7/8			1.10
ESP - Pump	1			4			7.77
ESP - Pump	1			4			21.82
ESP - Pump	1			4			21.82
ESP - Pump	1			4			21.82
ESP - Intake	1			4			3.58
ESP - Intake	1			4			3.85
ESP - Upper Protector (Seal)	1			4			8.20
ESP - Lower Protector (Seal)	1			4			8.20
ESP - Motor	1			4			26.40
ESP - Sensor	1			4			2.20

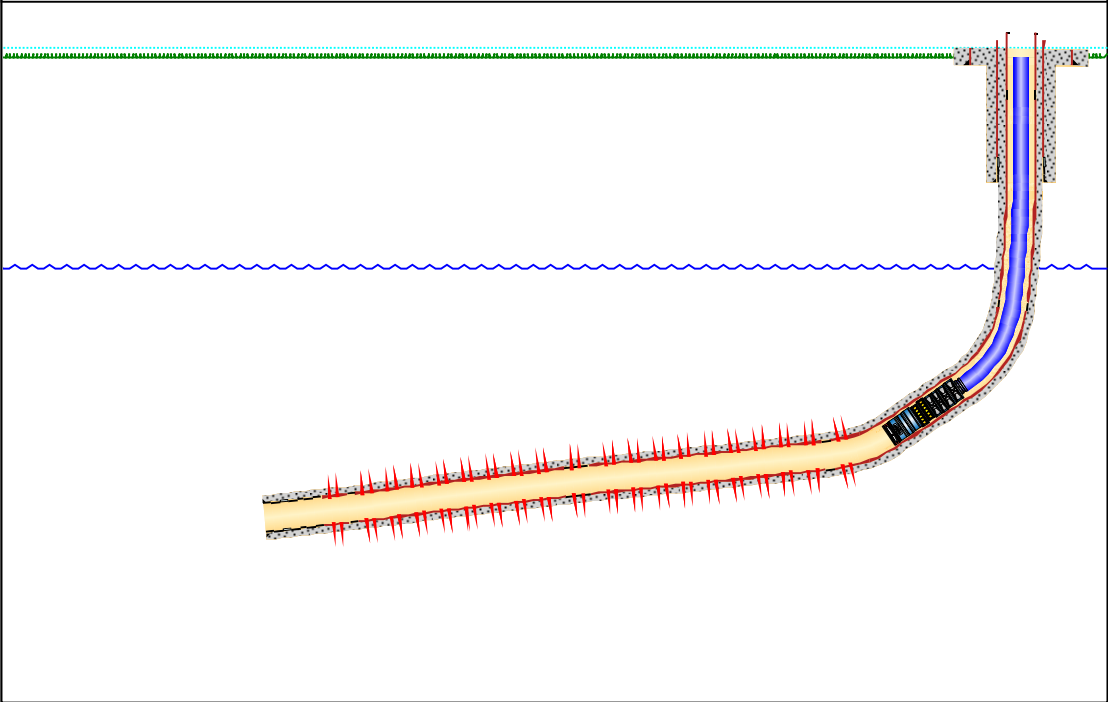
Rod Description	Run Date		String Length (ft)	Set Depth (ftKB)			
Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)

Date	Top (ftKB)	Btm (ftKB)	Linked Zone
2/20/2018	5,004.0	5,007.0	
2/20/2018	5,202.0	5,205.0	
2/20/2018	5,400.0	5,403.0	
2/19/2018	5,598.0	5,601.0	
2/19/2018	5,796.0	5,799.0	
2/19/2018	5,994.0	5,997.0	
2/19/2018	6,192.0	6,195.0	
2/19/2018	6,390.0	6,393.0	

Schematic

Original Hole, 5/25/2018 8:00:00 PM

Directional schematic (actual)



Perforations

Date	Top (ftKB)	Btm (ftKB)	Linked Zone
2/18/2018	6,588.0	6,591.0	
2/18/2018	6,786.0	6,789.0	
2/18/2018	6,984.0	6,987.0	
2/18/2018	7,184.0	7,187.0	
2/15/2018	7,380.0	7,383.0	
2/15/2018	7,535.0	7,539.0	
2/14/2018	7,775.0	7,779.0	
2/14/2018	7,973.0	7,977.0	
2/14/2018	8,171.0	8,175.0	
2/14/2018	8,369.0	8,373.0	
2/14/2018	8,567.0	8,571.0	
2/14/2018	8,755.0	8,769.0	

