University FI 7HD

Andrews County, TX

API # 42-003-47975

LIME ROCK RESOURCES

Date Revised: 09/23/19

AFE:	D18278
SPUD DATE:	2/5/2019
RR Date:	3/30/2019

FIELD:	Emma
Coordinates:	Lat: N 32.1598612°, Long: W 102.6003351°
Legal Location:	NAD83 TX-NC Zone

KB Elevation:	3,175'
GL Elevation:	3,150'
KB-GL:	25'

13-3/8" @ 1,768'

Pipe Data / Hole Data / Cement Data

CSG	OD	Grade	Thread	WT/FT	Top	Bottom	# JTS	Bit Size	Depth	MW	SX	WT.	Type	TOC	Comments
Surface	13-3/8"	J-55	BTC	54.5	0'	1,768'	44	17-1/2"	1,768'	8.8	805	12.3	Class C	0'	
											525	14.8	Class C		Bumped plug, floats held
Intermediate	7-5/8"	L-80	BTC	29.7	0'	10,563'	246	10-5/8"	10,563'	9.9	795	11.6	Class C	0'	Lead; 140 bbls to surf.
											650	14.2	Class C		Tail
Production	4-1/2"	P-110	BTC	13.5	0'	18,335'	427	6-3/4"	18,335'	8.6	25	10.6	Class C	9,021'	
											950	14.2	Class H	10,110'	Bumped plug, floats held

TOC @ 0'

Directional Data

KOP	EOB	Heel TVD	Toe TVD	Avg TVD	Lat. Len.
10,064'	11,329'	10,740'	10,771'	10,747'	6,953'

Stimulation Data

PBTD	Top Perf	Bot. Perf	Stages	Frac Load	# Sand	Comments
18,288'	11,217'	18,170'	35	270,397	13,513,544	

Wellhead Details

13-5/8" 5M x 7-1/16" 10M Tbg Head

13-5/8" 5M x 13-5/8" 5M Csg Head

13-5/8" 5M x 13-5/8" 5M Csg Spool

7-5/8" @ 10,563'

TOC @ 9,021'

Well History

Date	Comments
7/31/2019	Started Production

FIT Data

Bit Size	Depth	Eq. MW

Log Details

Date	Top	Bottom	Type

Tubing Detail: Installed on 11/18/17

Component	Drift (in)	OD (in)	Length	Top Depth
Tbg hanger			0.75'	25.00'
(293) jts 2-7/8" 9.3# L-80 8rd EUE tbg	2.347	2.875	9,768.27'	25.75'
2-7/58" SN			1.10'	9,794.02'
3 motors/1 sensor			192.15'	9,795.12'
(2) jts 2-7/8" 6.5# L-80 8rd EUE tbg	2.347	2.875	82.73'	9,987.27'
(1) 5-1/2" AS-1X Packer			2.00'	10,070.00'
(1) calvins D3427 Desander			3.00'	10,072.00'
(10) jts 2-7/8" 6.5# L-80 8rd EUE tbg	2.347	2.875	325.00'	10,075.00'
EOT				10,400.00'

KOP @ 10,064'

Top Perf @ 11,217'

Bot. Perf @ 18,170'

PBTD @ 18,288'

Toe Initator @ 18,2(

Ave. TVD in lateral: 10,747'

EOB @ 11,329'

Prepared By: Tom Rodriquez

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Revised By: Tom Rodriquez

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