

SIDE TWO

Operator Name Liberty Operations & Completions, Inc. Lease Name..... States 3
 Well #.....

Sec. 20 TWD. 6S Rce. 20 East West County..... Rocks.....

Estimated Production Per 24 Hours	Oil 30 Bbls	Gas MCF	Water 15 Bbls	Gas-Oil Ratio CFPB	Gravity
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METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented

Open Hole

Perforation

3684-3716'

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

DST #1: 3664-3725/30-60-60-60. REC 300' total fluid, 120' gas above fluid, 120' clean gassy oil, 180' mud cut oil. IHP: 1018, IFP: 100-125, ISIP: 731, FFP: 159-192, FSIP: 689, FHP: 1008.

LOG TOPS

Anhydrite	1865 (+360)
Topeka	3235 (-1010)
Heebner	3436 (-1211)
Toronto	3460 (-1235)
Lansing/KC	3472 (-1247)
Base/KC	3668 (-1443)
Marmaton	3683 (-1458)
Arbuckle	3702 (-1477)

Name	Top	Bottom
surface shale	0'	40'
sand and shale	40'	250'
shale and sand	250'	1245'
shale and sand	1245'	2040'
shale	2040'	2330'
shale	2330'	2354'
shale and lime	2354'	2530'
shale and lime	2530'	2788'
shale and lime	2788'	3000'
lime and shale	3000'	3200'
lime and shale	3200'	3348'
lime and shale	3348'	3470'
lime and shale	3470'	3595'
lime and shale	3595'	3697'
lime and shale	3697'	3725'
arbuckle	3725'	3775'
		R.T.D.

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
Surface Casing	12 1/4"	8 5/8"	20#	249'	60-40pos	175	3%cc 2%gel
Production	7 7/8"	4 1/2"	9.5#	3769.24'	60-40pos	125	8%salt 2%gel
"	"	"	"	"	Econolite	325	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4/foot	3708-3716'	1000 gal. 15% I.N.S.	3708-16'
5/foot	3684-3686.5'	750 gal. 15% D.F.E. w/5% checker-sol. retr. w/1000 gal. 15% C.R.A.	3684-86.5'

TUBING RECORD	Size 2 3/8"	Set At 3735'	Packer at	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First Production 1-25-86	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....
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