Oklahoma Corporation Commission Oil & Gas Conservation Division Post Office Box 52000 Oklahoma 73152-2000

Rule 165: 10-3-25

OTC Prod. Unit No.: 043-223764 Drilling Finished Date: June 08, 2018

1st Prod Date: July 12, 2018

Completion Date: June 28, 2018

Drill Type: HORIZONTAL HOLE

Min Gas Allowable: Yes

Well Name: LOUTHAN 3-19-17 1H Purchaser/Measurer: ENABLE

Location: DEWEY 10 19N 17W First Sales Date: 07/12/2018

SE NE NW NW

525 FNL 1145 FWL of 1/4 SEC

Latitude: 36.14273729 Longitude: -99.00466324 Derrick Elevation: 1827 Ground Elevation: 1804

Operator: TAPSTONE ENERGY LLC 23467

100 E MAIN ST

OKLAHOMA CITY, OK 73104-2509

Completion Type				
Χ	Single Zone			
	Multiple Zone			
	Commingled			

Location Exception
Order No
686033

Increased Density
Order No
678290

Casing and Cement								
Туре	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT	
SURFACE	9 5/8	36	J-55	1495	1400	485	SURFACE	
PRODUCTION	7	29	P-110	10413	2050	390	4989	

				Liner				
Туре	Size	Weight	Grade	Length	PSI	SAX	Top Depth	Bottom Depth
LINER	4 1/2	13/12	P-110	6465	1600	650	10036	16501

Total Depth: 16501

Packer					
Depth	Brand & Type				
There are no Packer records to display.					

Plug					
Depth	Plug Type				
There are no Plug records to display.					

Initial Test Data

November 07, 2018 1 of 3

Test Date	Formation	Oil BBL/Day	Oil-Gravity (API)	Gas MCF/Day	Gas-Oil Ratio Cu FT/BBL	Water BBL/Day	Pumpin or Flowing	Initial Shut- In Pressure	Choke Size	Flow Tubing Pressure
Jul 29, 2018	MISSISSIPPIAN (LESS CHESTER)	471	42	3106	6592	1589	FLOWING	460	42/64	783

Completion and Test Data by Producing Formation

Formation Name: MISSISSIPPIAN (LESS

CHESTER)

Code: 359MSNLC

Class: OIL

Spacing Orders					
Order No	Unit Size				
664977	640				

Perforated Intervals				
From	То			
11582	16408			

Acid Volumes

1,536 BARRELS 15% HCL

Fracture Treatments
132,425 BARRELS FLUID, 2,562,097 POUNDS SAND

Formation	Тор
BASE HEEBNER SHALE	6292
TONKAWA SAND	6712
COTTAGE GROVE SAND	7162
HOGSHOOTER	7478
OSWEGO LIME	7866
MORROW SHALE	8625
MISSISSIPPI UNCONFORMITY / CHESTER LIME	8950
MANNING	9756
BASE MANNING LIME	10027
MANNING SHALE	10123
UPPER MERAMEC	10252
MIDDLE MERAMEC	10372
LOWER MERAMEC	10734

Were open hole logs run? No

Date last log run:

Were unusual drilling circumstances encountered? No Explanation:

Other Remarks

There are no Other Remarks.

Lateral Holes

Sec: 3 TWP: 19N RGE: 17W County: DEWEY

NW NW NE NW

198 FNL 1348 FWL of 1/4 SEC

Depth of Deviation: 10723 Radius of Turn: 363 Direction: 1 Total Length: 5415

Measured Total Depth: 16501 True Vertical Depth: 10669 End Pt. Location From Release, Unit or Property Line: 198

FOR COMMISSION USE ONLY

November 07, 2018 2 of 3

Status: Accepted

November 07, 2018 3 of 3

OTC PROD. **0**43223764

UNIT NO.

(PLEASE TYPE OR USE BLACK INK ONLY)

OKLAHOMA CORPORATION COMMISSION

Oil & Gas Conservation Division

Post Office Box 52000

Oklahoma City, Oklahoma 73152-2000

Form 1002A Rev. 2009

SEP 2 1 2018

OKLAHOMA	CORPORA	ATION
COM	MISSION	111011

AMENDED (Reason)						_			city, Oklaho Rule 165:1 PLETION	0-3-25	2000	OKLAH	OMA CO	RPORATION SSION
TYPE OF DRILLING OPERAT STRAIGHT HOLE		HOLE		Juan	7011741 1101	_	SPUE	DATE	5/1	7/18	_		640 Acres	s
SERVICE WELL	DIRECTIONAL		1,1	_HORI	ZONTAL HOLE	Ξ	DRLG	FINISHED		8/18		x		
If directional or horizontal, see			_	- 401	1 47		DATE	OF WELL		7.4				
COUNTY Dev		SEC 10	IWI	₽ 19N	\A/E1.1	-		PLETION	6/2	28/18				
NAME	Louthan 3-				NO.	1H	1st PF	ROD DATE	7/1	2/18				
SE 1/4 NE 1/4 NV	N 1/4 NW	1/4 FNL of 1/4 SE	c 5	525	FWL of 1/4 SEC 1	145	RECO	OMP DATE			w_			
ELEVATION 1827 Gro	ound 180	4 Latitude	e (if kn	own)	36.14273	3729		ongitude	-99.00	466324				
OPERATOR NAME	TAPSTO	NE ENE	RG	Y			OCC RATOR		23	467				
ADDRESS			100	EM	ain Street		RATOR	R NO.				562		
CITY	Oklahoma C	itv			STATE		OK	ZIP	7210	4-2509				
COMPLETION TYPE		- Ity		0.4.01		IT (F							LOCATE WE	ELL
X SINGLE ZONE			7	CASI	NG & CEMEN TYPE	_	IZE	WEIGHT	GRADE		FEET	PSI	SAX	TOP OF CMT
MULTIPLE ZONE			-	COND	UCTOR	+		WEIGHT	OIVIDE			101	U/U	TOT OF OWN
Application Date COMMINGLED		F.	h	SURF		0	5/8	36	J-55		1495	1400	485	SURFACE
Application Date LOCATION EXCEPTION	67840		22		RMEDIATE .	1	7	29	P-110	-			-	
ORDER NO. NCREASED DENSITY	678290	0000	20		UCTION	1	1	29	P-110	1	0,413	2050	390	4,989
ORDER NO.	070230	0 7,03	_	LINER		1	1/2	13 1/2	D 440	10,036	CE04	4000	050	40.000
				LINER	·	4	1/2	13 1/2	P-110	101-	6501	1600	650	10,036
PACKER @BRA PACKER @ BRA			318	PLUG PLUG					- LAND V		670).		DEPTH	16,501
COMPLETION & TEST DAT		NG FORMA	TION			-	. IYPE.		PLUG @		TYPE			
FORMATION	(359 MS	SNLC)	mi	SSIS	Sippidi	11	Les	s Ches	ter)				2	eported
SPACING & SPACING ORDER NUMBER	640 -	664977			//								to	Form Fra
CLASS: Oil, Gas, Dry, Inj, Disp, Comm Disp, Svc		Oil											/6	reactor
	377										-			
•	11582	2-16408					1							
	11582	2-16408												
	11582	2-16408												
NTERVALS		2-16408 I 15% H0	CI											
NTERVALS	1536 bb	l 15% H0												
ACID/VOLUME	1536 bb	I 15% HO	uid											
ACID/VOLUME FRACTURE TREATMENT	1536 bb	I 15% HO	uid											
PERFORATED INTERVALS ACID/VOLUME FRACTURE TREATMENT Fluids/Prop Amounts)	1536 bb	l 15% Ho obls of Fl lbs of Sa	uid and	wahle	/165-	10.17	7)							
ACID/VOLUME FRACTURE TREATMENT Fluids/Prop Amounts)	1536 bb	I 15% HO	uid and	wable	(165:	10-17-	7)			Purchaser/N Sales Date	Measurer			able /2018
NTERVALS ACID/VOLUME FRACTURE TREATMENT Fluids/Prop Amounts) NITIAL TEST DATA	1536 bb 132,425 b 2,562,097	I 15% HO Oblis of FI Ibs of Sa Min Gae	uid and s Allov OR		(165:	10-17-	-7)				Measurer			able /2018
NTERVALS ACID/VOLUME FRACTURE TREATMENT Fluids/Prop Amounts) NITIAL TEST DATA NITIAL TEST DATE	1536 bb 132,425 b 2,562,097	I 15% HO bbls of Fl lbs of Sa Min Gas Oil Allo	uid and s Allov OR			10-17-	-7)				Measurer			
NTERVALS ACID/VOLUME FRACTURE TREATMENT Fluids/Prop Amounts) NITIAL TEST DATA NITIAL TEST DATE	1536 bb 132,425 b 2,562,097	I 15% HO Oblis of FI Ibs of Sa Min Gae	uid and s Allov OR						First	Sales Date				
ACID/VOLUME FRACTURE TREATMENT Fluids/Prop Amounts) NITIAL TEST DATA NITIAL TEST DATE DIL-BBL/DAY	1536 bb 132,425 b 2,562,097	I 15% HO bbls of Fl lbs of Sa Min Gas Oil Allo	uid and s Allov OR						First	Sales Date				
NTERVALS ACID/VOLUME PRACTURE TREATMENT Fluids/Prop Amounts) NITIAL TEST DATA NITIAL TEST DATE DIL-BBL/DAY DIL-GRAVITY (API)	1536 bb 132,425 b 2,562,097	I 15% HO bbls of FI lbs of Sa Min Gas Oil Allo 0/2018	uid and s Allov OR				Ш		First	Sales Date	ШП			
ACID/VOLUME FRACTURE TREATMENT Fluids/Prop Amounts) NITIAL TEST DATA NITIAL TEST DATE DIL-BBL/DAY DIL-GRAVITY (API) SAS-MCF/DAY	1536 bb 132,425 b 2,562,097	I 15% HO bbls of Fl lbs of Sa Min Gas Oil Allo 0/2018	uid and s Allov OR				Ш		First	Sales Date	ШП			
ACID/VOLUME FRACTURE TREATMENT Fluids/Prop Amounts) NITIAL TEST DATA NITIAL TEST DATE DIL-BBL/DAY DIL-GRAVITY (API) SAS-MCF/DAY SAS-OIL RATIO CU FT/BBL	1536 bb 132,425 b 2,562,097	I 15% HO Oblis of FI Ibs of Sa Min Ga Oil Allo 0/2018 171 42	uid and s Allov OR				Ш A:	5 5	First UB	Sales Date	IIII			
ACID/VOLUME FRACTURE TREATMENT Fluids/Prop Amounts) NITIAL TEST DATA NITIAL TEST DATE DIL-BBL/DAY DIL-GRAVITY (API) GAS-MCF/DAY GAS-OIL RATIO CU FT/BBL VATER-BBL/DAY	1536 bb 132,425 t 2,562,097 x 7/29 4 3: 65	I 15% HO bbls of FI lbs of Sa Min Gae Oil Allo 0/2018 171 42 106 592	uid and s Allov OR				Ш A:	5 5	First UB	Sales Date	IIII			
ACID/VOLUME FRACTURE TREATMENT Fluids/Prop Amounts) NITIAL TEST DATA NITIAL TEST DATE DIL-BBL/DAY DIL-GRAVITY (API) GAS-MCF/DAY GAS-OIL RATIO CU FT/BBL VATER-BBL/DAY	1536 bb 132,425 b 2,562,097 x 7/29 4 3: 65 15 Flo	I 15% HO bbls of FI lbs of Sa Min Gas Oil Allo 0/2018 171 42 106 592	uid and s Allov OR				Ш A:		First UB	Sales Date	IIII			
ACID/VOLUME FRACTURE TREATMENT	1536 bb 132,425 t 2,562,097 x 7/29 4 3: 65 Flo	I 15% HO bbls of FI lbs of Sa Min Gas 0il Allo 9/2018 171 42 106 592 589 wing	uid and s Allov OR				Ш A:	5 5	First UB	Sales Date	IIII			

INITIAL TEST DATA	Oli Allowable	(165:10-13-3)				
INITIAL TEST DATE	7/29/2018				5	
OIL-BBL/DAY	471		1. 18			
OIL-GRAVITY (API)	42				ШП	
GAS-MCF/DAY	3106					
GAS-OIL RATIO CU FT/BBL	6592	IA	5 SIII	BMITT	FNI	
WATER-BBL/DAY	1589					
PUMPING OR FLOWING	Flowing					
INITIAL SHUT-IN PRESSURE	460					
CHOKE SIZE	42/64					
FLOW TUBING PRESSURE	783					

A record of the formations drilled through, and pertinent remarks ar	re presented on t	he reverse I decla	are that I have knowledge	ge of the contents of this report and am authorized by my organization
to make this report, which was prepared by me or under my supervi	ision and direction	n, with the data an	d facts stated herein to	be true, correct, and complete to the best of my knowledge and belief.
Mr Kug		Ryan k	Coontz	405-702-5459
SIGNATURE		NAME (PRIN	T OR TYPE)	DATE PHONE NUMBER
U 100 E Main Street	OKC	OK	73104	rkoontz@tapstoneenergy.com
ADDRESS	CITY	STATE	ZIP	EMAIL ADDRESS

PLEASE TYPE OR USE BLACK INK ONLY FORMATION RECORD

Give formation names and tops, if available, or descriptions and thickness of formations drilled through. Show intervals cored or drillstem tested

drilled through. Show intervals cored or drillstern tested.	
NAMES OF FORMATIONS	TOP
Base Heebner Shale	6,292
Tonkawa Sand	6,712
Cottage Grove Sand	7162
Hogshooter	7,478
Oswego Lime	7,866
Morrow Shale	8,625
Miss Unconformity/Chester Lime	8,950
Manning	9,756
Base Manning Lime	10,027
Manning Shale	10,123
Upper Meramec	10,252
Middle Meramec	10,372
Lower Meramec	10,734
·	

LEASE NAME	Louthan 3-19-17	WELL NO.	1H

	FOR COMMISSION USE ONLY
ITD on file YES III	2) Reject Codes
Date Last log was run Was CO ₂ encountered?	yes _X no yes _X no at what depths? yes _X no at what depths? ntered?yes _X no

Other remarks:		
· · · · · · · · · · · · · · · · · · ·		

640 Acres

If more than three drainholes are proposed, attach a separate sheet indicating the necessary information.

Direction must be stated in degrees azimuth. Please note, the horizontal drainhole and its end point must be located within the boundaries of the lease or spacing unit.

Directional surveys are required for all drainholes and directional wells.

	640 /	Acres		

BOTTOM HOLE LOCATION FOR DIRECTIONAL HOLE

SEC	TWP	RGE	COUNTY			
Spot Loca	tion	1/4 1/4	1/4	Feet From 1/4 Sec Lines	FNL	FWL
Measured	Total Depth	True Vertical De	epth	BHL From Lease, Unit, or Prope	rty Line:	

BOTTOM HOLE LOCATION FOR HORIZONTAL HOLE: (LATERALS)

LATERAL	#1
OFO	T

LAILIV	~L #														
SEC 3	3	TWP	19N	RGE	17W	V	COUNTY		Dewey						
Spot Loc NW		n 1/4	NW	1/4	NE	1/4	NW	1/4	Feet From	1/4 Sec Lines		FNL	198	FWL	1348
Depth of Deviation	f		10,723		Radius of	Turn	363		Direction	0.9		Total Length		5,415	
Measure	ed To	otal De	epth		True Vertic	cal De	pth		BHL From	Lease, Unit, o	r Proper	ty Line:			
		16,	501			10,6	669					198			

LATERAL #2

SEC	TWP	RGE		COUNTY			
Spot Location	on 1/4	1/4	1/4	1/4	Feet From 1/4 Sec Lines	FSL	FWL
Depth of			Radius of Turn		Direction	Total	
Deviation						Length	
Measured T	otal Depth		True Vertical De	pth	BHL From Lease, Unit, or Pro	perty Line:	

LA	۲Æ	Έ	R/	٩L	#

SEC	TWP	RGE		COUNTY			
Spot Locati	on 1/4	1/4	1/4	1/4	Feet From 1/4 Sec Lines	FSL	FWL
Depth of Deviation	1/4	17-7	Radius of Turn		Direction	Total Length	
Measured Total Depth		True Vertical Depth		BHL From Lease, Unit, or Property Line:			

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA
Wireless Way, Okla. City, OK. 73134 (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS 13800 Wir DFWFY _ County, Oklahoma 525'FNL - 1145'FWL Section _ X= 1707443 Y= 423279 __ Township 10 _____19N ___ Range ____17W __I.M. T20N-R17W Township Line-P T19N-R17W X= 1704818 Y= 423308 3/34-20-17 -Drilled) BOTTOM HOLE BOTTOM PERF LOT 4 LOT 3 LOT 2 LOT 1 Annevo 1H (As-90GR484 90N-5 537 1958 BOTTOM HOLE (16501' MD) 198"FNL-1348'FWL 36'09'29.5" W 99'00'15.3" N 36.158186831' N 99.004243778' W X= 1703542 Y= 423124 BOTTOM PERF. (16408' MD) 291'FNL-1346'FWL 36.157932124' N 99.004245342' W X= 1703541 Y= 423031 S/2-NE/4 HER S/2-NW/4 TOP PERF 10400' MD GRID NAD-27 OK NORTH US Feet 1707422 420610 X= 1702210 Y= 420648 500' 1000' 3 3-19-17 Best Acces
Distance &
from Hwy ,
go ±3.0 | Good Lease Topography Operator: t Accessibility to Loc lance & Direction m Hwy Jct or Town_ ±3.0 mi. West on to Drill Name: TAPSTONE Site? 80 LOUTHAN 3-19-Vegetation TOP PERF (11582' MD) 186'FSL-1301'FWL (SEC 3) 36.144895011' N 99.004138620' W X= 1703522 Y= 418212 ENERGY Location Ş Yes From Hwy. Loc. X= 1704809 Y= 418029 fell X= 1702222 TOP PERF Jct. Y= 418025 ⊇. ₽ Şţ ±1306 ±11396' MD sloping PENETRATION POINT (10285' MD) (SEC 10) 686'FNL-1321'FWL 36.142302007' N 99.004068920' W X= 1703534 Y= 417341 the H₩Y. SURFACE HOLE Reference S Stakes Set N N off PENETRATION POINT Ω. pasture, Cor. Trust 3/10-19-17 1H (As-Drilled) S and 잌 Stakes or None S North Sec. Hwy. 60 10-T19N-R17W side 183, Alternate 으 No:: West pad X= 1702188 Y= 415393 主 Location <u>o</u>, 으 ±51, (10)Seiling, South **ELEVATION:** 웃

DATUM: NAD-27 LAT: 36'08'33.9"N LONG: 99'00'16.8"W LAT: 36.142737294° N LONG: 99.004663245° W STATE PLANE COORDINATES: (US Feet) This ered ±1 fo ZONE: OK NORTH gathe X:___1703360 417501

앜 Gr. at pipeline Stake

X= 1702156 Y= 412771

296802 Date of Drawing: <u>June 21, 2018</u> Invoice # 290741 Date Staked: Mar. 20, 2018 JΡ

PERF

FINAL AS-DRILLED PLAT

AS-DRILLED INFORMATION FURNISHED BY TAPSTONE ENERGY