STATE OF KANSAS - CORPORATION COMMISSION PRODUCTION TEST & GOR REPORT

YPE TEST		on									19-21			orm C-5 Rev
	<u>:</u>	Initia	1	O Annual	_ <u> </u>	orkover	Lease	assificatio	on Ti	ST DA	TE: <u>04/1</u>	4/2010	Well N	₹ <b>o.</b> A-1
<u>STRĂT L</u>		EXPL	ORATIO:	N		· 	CAL	HOON						<b>A-1</b>
County		26 F	PNL S	Location 84 F &	<u>-</u> _	Section 11	1	<b>Town</b> T33	ship 35		Range (E/ T <b>2</b> (9W	W)	Acres	640
API Well Number 15 - 119-21024-00-01				R	escrvoir(s) CHEROKE	_					Gu	<u> AIDS</u>	ne Connection	
ompletion I	Date		Type of C	Completion (I FRAC_	Describe)				Pi	ug <b>B</b> aci				Packer Set A
fting Meth	od:					Liquid				<u> </u>		API	Gravity	of Liquid/Oi
				ESP L	<u>OIL</u> <b>D</b> .	Set At 5784		Perfo	rations		40			<del>40</del>
5 1/2	15.5"			71	5784 ID. Set At			Perforations			5494-5506 <b>To</b>			
ubing Size 2 7/8"			Weight 6.5		D.	5519		- FOILD	(dia)					
retest: tarting Date	test:			Time 4:0	0 <u>am/</u>	AM/FM Ending Date			4/13/2010			00 ·	· AM/RM)	
est: tarting Date	4/13	3/201	0	Time 4:0	0 AM/	EM Ending	Date 4	/14/20	10		Time 4:	00	AM/R	<b>M</b>
						DUCTION C	BSERVE	D DATA						
roducing Wasing: 95	ellhead	Pressur Psig	re Tubing:	220 P	rig	Separa	tor Pressu	50	Paig					Choke Size 30/64
Bola/In.	T		Tank		Starting Gauge				Ending		lge		Net API Bbls.	
	Si	ze	Number	Feet	Inches			- 1		iches Barrels		+	ater	Oil
Pretest:	300		12-336	. 5	4	106.2	2	9	6 1/2		275.4			84.6
Test:	210		16-564		2	56.0		4	3		59.5	1.	2	
Test	300		12-336	9	6 1/2			13	9 1/4		. 2754		_	846
		4	ar s		GAS PROI	OUCTION (			7					
rifice Mete pe Taps:	Conne	спола (	(LEVNO) Flange T	aps:		Differe	Meter Ra intial: 20	)() 1186			Static Pres	sure: 5(	00	
Туре	E	intry	Orifice	Meter-Prov	leter-Prover-Tester Pressure						Diff. Press.		Gas Flow	
Measuring Device	3 1	Size	Size	In, Water	In. Merc.	Peig or (Pa)	%CO,	O <sub>1</sub> H <sub>2</sub> Spp		(h_)	or (h <sub>e</sub> )	Gravit (G <sub>g</sub> )		Temp. (t)
Orifice Meter	3.0	 077	1.250	5.6		60.3	.2	.2		5	4	.863	ľ	60
Critical								1	1				RE	CEIVED
Flow Prove	-												MA	Y 1 7- 201
MERLA	-						•	•	. 1					יי צטוייייייייייייייייייייייייייייייייי
Well Tester					GAS FI O	W RATE CA	ТСІП АТ	TONS (P)	<u> </u>			L	CCC	₩CHT
Coeff. N	CFD	Τ	Meter-Prov		Press.	Gravity 1		Flowin		<u>, T</u>	Deviati	on I	Sor	.Rt. Chart
				. (Psia)(P_) Extens		gion (F,)		Factor (F.)		Factor (F <sub>pv</sub> )			Factor (Fa)	
	•					i.4 1.076		1.000		1.008			· N/A	
		17.	73.4	·	0.43 <sub>23,24</sub>	1.07								
7.77	1				el Theod			Gool	21 10 -4					Cubia Fa
(F.) (	1 CFD .5				il Prod.				Oil Rati OR) =		A A	 ∄ౙ <b>*8</b> 0	09 >	Cubic Fee per Bb
(F <sub>b</sub> ) (7.77 as Prod. Malow Rate (R	CFD 5	8.8. /	authority, or	O B	el Theod	4.6	is duly aut	(G thorized to	OR) - o make iay of_	the ab	ove report a	nd that h	e has kı 19	per Bb

## STATE OF KANSAS - CORPORATION COMMISSION PRODUCTION TEST & GOR REPORT

Onservation YPE TEST:		<u>1</u> Initia	1		- 01	Workover	П	Recla	ssification	n TE	ST D	ATE: 04/1	4/2010	Form C-5 Rev
Ompany	<u>,,,,</u>	'a					L	CLIC					V === 10	Vell No. <sub>A-1</sub>
STRAT LAND EXPLORATION  MEADE 626 FNL 98			Location Section				CAL	HOON Town	ship	-	Range (E/W)		Acres	
	MEADE 626 FNL I Well Number		NL 9	84 F E	 scrvoir(s)				T335			T <b>2</b> 9W		G40 Pipeline Connection
- 119 <u>-2</u>	1024-0	0-0	)1		:HEROK	EE								<u>DSTREAM, LI</u>
moletion D	atc 110		Type of C ACID	Completion (D)	cacribe)						g <b>Bac</b> 555	k T.D. O		Packer Set A N/A
ifting Metho	d:			<u> </u>		pe Liquid					<u> </u>	·	API G	ravity of Liquid/O
one asing Size	Pumping	3)	Gas Lift Weight	ESP LD	<u>O</u> IL	Sct	At		Perfo	rations		<del></del>	To	
5 1/2	1/21 <u>5.5</u> "			LD.		Set At 5784 Set At		Perforations				5494-55 To	06	
ubing <b>Size</b> 2 7/8"	· 		6.5	· ·	·	5519	<u> </u>		1 610	ioux/iii				
retest: tarting Date	04/12	2/20	)10	Time 4:00	AM	MPM End	ling Date	e 4,	/13/20	10		Time 4:	00 · A	M/RM)
est:	4/13/	201	n	Time 4:00		M/RM) End	lina Det		/14/20	110		Time 4:	^^	M/RM)
tarting Date	77 (37)	201	<u> </u>	11me 4.00		DUCTION						TIMO	A	TAN L'ÉAT.)
roducing We asing: 95			C Tubing: 2	220 Pai		Sep	arator P		50	Prig				<u>Choke Siz</u> · 30/64
Bbls/In.	Psig Tubing: 2 Stock Tank			220 14	Gauge	· ·			Ending Gau			N	Net API Bbls.	
D0183111.			Number	Feet	<del>1</del>	Inches Barrel		Feet		Inches		Barrels	Wate	<del></del>
Pretest:	Size		<del></del>	<del> </del>	4	<u> </u>	106.2		9	6 1/2		275.4	- wate	84.6
<u></u>	300		12-3361	<del> </del>	2			-	4			59,5	3.7	024.0
Test:	210	_	16-5645	4			56.0 190.8			3			1.2	04.6
Test:	300		12-3361	9	6 1/			13 ERVED DATA		9 1/4		2754	* * * * * * * * * * * * * * * * * * * *	84 6
rifice Meter	Connecti	опз (	(Ye\/No)		CABIAC	<u>Ori</u>	fice Met	er Ran	96				· · · ·	<u> </u>
ipe Taps:			Flange Ta	<del></del>			ferential:	20	0			1.	sure: 500	<del></del> -
Type Measuring	Entry Size		Orifice Size	Meter-Prove	-Tester Pressure		<del></del>	<del></del>				f. Press. or (h.)	Gas Gravity	Flowing Temp. (t)
Device				In, Water I	n. Merc.	Prig or (F	gor(P <sub>d</sub> ) %0		H <sub>2</sub> Spp				(G,)	ļ
Orifice Meter			1.250	5.6		60.3		.2	(	)	5	· .	.863	60
Critical							<del>                                     </del>	_		1		<del> </del>		RECEIVE
Flow Prover						-			+	$\dashv$		**		WAY 1 7 20
MERLA Well Tester			ן ו							.				.]
			·		GAS FLC	W RATE	CALCU	LATI	ONS (R	)			K	CC WICH
				Press. Gravity Factor			•	Flowing Temp.			Deviati		Sqr. Rt. Chart	
(F <sub>b</sub> ) (F <sub>i</sub>	þ	l P	ress. (Psia)(P	- : -	tension b. • P.		(F)		Fact	or (F <sub>i</sub> )		Factor (	E <sub>Pr</sub> )	Factor (F <sub>4</sub> )
7.771			73.4		6.4		1.076		1.000		1.008		,	N/A )
		73.44				1.070		╧┼	1.000		1.000		<del>'</del> -	
as Prod. MC	FD 50	L		lOil	Prod.				Gas/C	il Ratio				Cubic Fe
ow Rate (R)		.8÷	· Text	Bb	ls./Day: 8	34.6			(G	OR) =		15 1 60 15 A	<u>-</u> 809	per Bl
The	undernis	med :	authority, on	behalf of the	Company,	states that	he is du	ly auti	orized t	make t	he ab	ove report a	nd that he l	nas knowledge of
				ert is true and				TH		lay of		MAY		<u>19 201</u> 0
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For	Offset O	perat	or	, –	For	r Commissi	ioa		`			-	For Compa	ny (Rev. 10/5



Mark Parkinson, Governor Thomas E. Wright, Chairman Joseph F. Harkins, Commissioner Ward Loyd, Commissioner

May 18, 2010

Dee Janssen Strat land Exploration Company 15 East Fifth St. Suite 2020 Tulsa, OK. 74103

RE: Classification of Calhoon A-1 Well-Section 11-33S-29W; Meade County, KS.

Dear Ms. Janssen:

Conservation Division staff is in receipt of the gas/oil ratio test results obtained by Thurmond-McGlothlin on Stat Land Exploration Company's behalf. And, of course, staff is aware of the ratio indicating that this well should be classified as an oil well, not a gas well.

As the member of the Conservation Division staff who normally deals with well-classification and the accompanying well-spacing issues, I accept Strat Land Exploration Company's claim for classification of the Calhoon well as an oil well.

However, I need to inform Strat Land Exploration Company of the fact that Thurmond-McGlothlin made a mathematical mistake in their calculations which led to an incorrect ratio value. The ratio isn't quite as low as what their calculations would seem to imply.

With the proper corrections made, staff came up with a ratio of 2,038 cubic feet/Bbl. which doesn't change the classification of the Calhoon well, ......just brings the current ratio value a little closer to the defining ratio of 15,000 cubic feet/Barrel.

The daily oil production allowable for this well (it won't be limited on the associated natural gas that gets produced along with the oil) will be 200 Barrels.

It was noted by staff that someone entered "640" in the blank space up in the upper righthand corner of the form that's reserved for "Acres". While it's true that under the statewide, default rules and regulations of the Commission, it's not required for an operator to necessarily declare a unit to the KCC staff or how many surface acres a given well holds with production nor do those rules dictate what acreage an operator assigns to a particular well (as long as he/she doesn't go below 10 Acres), staff couldn't help but wonder if this entry represents a clerical mistake.

In Kansas, normally, an individual oil well only holds anywhere between 40 Acres and 160 total Acres with production. Please advise as to whether this entry on the C-5 form is accurate or is, in fact, a mistake. Staff will await your response.

Thank you for your ongoing cooperation.

Sincerely,

Jim Hemmen Research Analyst



Mark Parkinson, Governor Thomas E. Wright, Chairman Joseph F. Harkins, Commissioner Ward Loyd, Commissioner

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