KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	it:						(See Instruc	ctions on Re	everse Side	e)				
Or	en Flo	w												
Deliverabilty				Test Date: 10-26&27,2010				NA 097 - 00156 - 0000						
Company		. LC	DEB LLC		:	, , ,		Lease HARD)Y		·	17 - 00 #1	Well Number	
County Location KIOWA NW NW NE					Section TWP 23 28S				RNG (E.	(W)		Acres Attributed		
Field HARDY					Reservoir MISS-CHAT			Gas Gathering Connection ONEOK FIELD SVCS.						
Completion Date 6-1-56				Plug Back Total Depth 4933				Packer Set at NONE						
Casing Size Weight 5.000 15.00				Internal I 4.976	Diameter		Set at 4965		rations 8	To 4845)				
Tubing S 2.375	Tubing Size 2.375			Weight 4.70		Internal Diameter 1.995		Set at 4838		Perforations OPEN		То		
Type Completion (Describe) SINGLE					Type Fluid Production GAS,WATER				Pump Unit or Traveling Plunger? Yes / No PUMPING					
Producing Thru (Annulus / Tubing) ANNULUS					% Carbon Dioxide				% Nitrogen Gas Gravity - G _g			ravity - G _g		
Vertical D	epth(H	l)					Pres	sure Taps			4	(Meter	Run) (Prover) Si	
Pressure	Buildu	p:	Shut in 10-	-26-	10 2	0 at		(AM) (PM)	Taken_1()-27-10	20	at	(AM) (PM	
Well on L	ine:		Started		2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM	
			Circle one:				OBSERVE	D SURFAC				Duration of Shut	t-inHo	
Static / Dynamic Property	nic Size		Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In								120	P 1.5	Pag	700	24		
Flow														
				1			FLOW STR	EAM ATTR	RIBUTES					
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		1	Press Extension P _m xh	Grav Fact F _g	tor	Flowing Temperature Factor F ₁₁		Deviation Factor F _{pv}		GOR (Cubic Fe Barrel)	eet/ Fluid	
								. i						
(P _c)² =		_:	(P _w) ² =	·		(OPEN FLO	OW) (DELIV		') CALCUL P _c - 14.4) +		:	(P _a) (P _d)) ² = 0.207) ² =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_a^2$		LOG of formula 1. or 2. and divide by:	P _c ² -P _w ²	Backpressure Curve Slope = "n"or Assigned Standard Slope		n x LOG		Antilog	Open Flow Deliverability Equals R x Antil (Mcfd)	
					. #		ν.				,			
O			:			<u> </u>								
Open Flov	<u> </u>				Acfd @ 14.6	55 psia		Deliverab	oility		<u> </u>	Vicfd @ 14.65 ps	ia	
			authority, on								e above repor OVEMBEF	t and that he ha	as knowledge of	
			,							of al	i g. C	Meller	, 20	
			Witness (i	f any)				-			For Co	ompany	RECEI	
			For Comm	ission		· · · · · · · · · · · · · · · · · · ·		-			Check	ked by	NOV 2 2	

exempt status under and that the forego correct to the best of equipment instal	er Rule K.A.R. 82-3-30 bing pressure informa of my knowledge and l lation and/or upon type	4 on behalf of the tion and stateme pelief based upon e of completion or	he state of Kansas that operator HERMAN L. L nts contained on this an available production su upon use being made of testing for the HARDY	OEB LLC. pplication form are trumaries and lease refitted the gas well herein n	ue and ecords
	unds that said well:	9 %			A. tu
(Check	one)	·**,	e e e e e e e e e e e e e e e e e e e	£	٠.
	is on vacuum at the pi	ift due to water gas for injection i resent time, KCC	nto an oil reservoir unde approval Docket No ate in excess of 250 mcf	·	
	to supply to the best of to corroborate this cla		and all supporting docun i from testing.	nents deemed by Co	mmission
Date: 11-19-10					
		Signature:	Gestie V. Ol P. HERMAN L. LOEB I	Man LC	

Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

HERMAN, L., LOEB LLC

OFFICE TELEPHONE: (618) 943-2227

FAX: (618) 943-2220

P.O. BOX 838 LAWRENCEVILLE ILLINOIS 62439

November 23, 2010

Jim Hemmen
Kansas Corporation Commission
Conservation Division – Legal Department
Finney State Office Bldg
130 S Market Room 2078
Wichita KS 67202-3802

RE: Les Oldham's Signature Authority for KCC Forms

Mr. Hemmen:

The management/directors of Herman L. Loeb, LLC hereby notifies the Conservation Division of the Kansas Corporation Commission that Mr. Les Oldham, as agent for Herman L. Loeb LLC can affix his signature to any and all KCC forms having to do with Herman L. Loeb LLC's gas/oil operations in Kansas and said signature will have the same binding authority upon the company as if an employee of or an officer in the company signed the form.

This authorization will remain in effect until you are otherwise notified.

Sincerely,

HERMAN L. LOEB LLC

Janette D. Loeb, Member/Manager

cc: Les Oldham

RECEIVED NOV 2 9 2010 KCC WICHITA