Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Company	Type Tes	st: pen Fl	low			Test Date		ctions on Rev	verse Side		No. 15				
Lesse Well Number	D	elivera	bilty									4-0000			
Section TWP RND (EW) Acres Altributed Section TWP RND (EW) Acres Altributed Section Reservoir Good and Gas Field Reservoir Gas Gathering Connaction Kinder - Morgan Competion Date Plug Back Total Depth Packer Set at Perforations To 10.50	Compan	у						Lease	-				Well Nu	ımber	
County Cocation No. No			rod	uction	. Inc.			∕ Hend	lrich				3-	5	
Reservoir Good Gas Field Nio Departs Gas Gathering Connection Kinder - Morgan	County				•	Section	,			RNG (E	/W)	•	Acres A	ttributed	
Concelland Cas Field NioDrara Kinder-Morgan	Sher	mai	า	NE	-NE-SW	5		8S		39W					
Purple Purple Packer Set at	Field					Reservoi	r			Gas Gat	hering Conne	ection			
10 / 22 / 92	Good	llar	nd (Gas Fi	eld	Niobr	ara			Ki	nder-Mo	organ			
Casing Size Weight Internal Diameter Set at Perforations To 1010	Completi	on Da	ite			Plug Bac	k Total Depti	h		Packer S	Set at				
10.72 980 10.10	10/22	2/92	2		***										
Tubing Size	-	Size		Weig	ht	Internal D	Diameter	Set a	t	Perto	rations	То			
Type Completion (Describe) Single Gas Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G, Annulus Freesure Buildup: Shut in 2-5 19 01 at 8:00 (AM) (PM) Taken 2-8 19 01 at 10:00 (AM) (PM) Taken 2-10 19 01 at 8:00 (PM) (PM) (PM) Taken 2-10 19 01 at 8:00 (PM) (PM) (PM) Taken 2-10 19 01 at 8:00 (PM) (PM) (PM) (PM) (PM) (PM) (PM) (PM)			· · · · · · · · · · · · · · · · · · ·										0'		
Producing Thrus (Annubus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - Q, Annubus Sport Sport Meter Run) (Provent) Size Sport Meter Run) (Provent) Size Started 2 - 8	Tubing S	ize		Weig	ht	Internal C	Diameter	Set a	t	Perfo	rations	То			
Producing Thru (Annulus / Tubing)		-		escribe)	······································	Type Flui	d Production	າ		Pump Ur	nit or Travelin	-		<u>.</u>	
Pressure Buildup: Shut in 2-5 19 01 at 8 ± 0.0 (AM) (PM) Taken 2-8 19 0.1 at 1.0 ± 0.0 (PM) (PM)				ulua / Tubiaa		9/ Corbon	Diovido			9/ Nitroo	<u> </u>	N	O Guithr G	 	
Pressure Buildup: Shut in 2-5 19 01 at 8:00 (A) (PM) Taken 2-8 19 01 at 10:00 (A) (PM) (PM) Taken 2-10 19 01 at 10:00 (A) (PM) (P		_	ı (Ann	ulus / Tubing	1)	% Carbon	Dioxide			76 Millog	611	Gas G		•	
Pressure Buildup: Shut in 2-5 19 01 at 8:00 (PM) Taken 2-8 19 01 at 10:00 (M) (PM) Well on Line: Starled 2-8 19 01 at 10:00 (M) (PM) Taken 2-10 19 01 at 8:00 (M) (PM) (PM) Taken 2-10 19 01 at 8:00 (M) (PM) (PM) Taken 2-10 19 01 at 8:00 (M) (PM) (PM) Taken 2-10 19 01 at 8:00 (M) (PM) (PM) Taken 2-10 19 01 at 8:00 (M) (PM) (PM) (PM) Taken 2-10 19 01 at 8:00 (M) (PM) (PM) (PM) (PM) (PM) (PM) (PM)								-				(0.4-4	<u>.590</u>	7	
Static Confice Conf	Vertical D	epth(Н)				Press	ure Taps				•		•	
State / Orritice Circus work Pressure Differential in (h) Gircus work Pressure Circus work Pressure Differential in (h) Inches Property Size Property Prover Pressure Differential in (h) Inches Property Inches	Pressure	Build	up: \$	Shut in2.	<u>- 5</u> 19	01 at _8	:00	(AM) (PM)	Taken <u>2</u>	8-8	19	01 at 10:0	0(AM) (PM)	
Static Orifice Orifi	Well on L	ine:	5	Started 2-1	<u> </u>	01 at _1	0:00	(PM)	Taken2	-10	19	01 at 8:00	(ÂM) (PM)	
Static Orlice							OBSERVE	D SURFACE	DATA			Duration of Shut	-in7	4 Hou	
Property Inches Paig Inches Paig Inches Paig Inches Paig Pa	Static / Dynamic	Cina		Meteryor	Differential	_		verature t Wellhead Press		Wellhe	ad Pressure		1 '	Liquid Produced (Barrels)	
State Stat	Property	inches			1 , ,	t	t					(Hours)	(5		
FLOW STREAM ATTRIBUTES Plate Coefficient Coefficien	Shut-In	• 3	375	18	0		•	19	32.5			74		00	
Plate Coefficient (F _e) (Mcld) (Gravity G _e) (Mcld) (Mcld) (Gravity G _e) (Mcld) (Gravity G _e) (Mcld) (Mcld) (Mcld) (Gravity G _e) (Mcld) (Mcld) (Gravity G _e) (Mcld) (Mc	Flow	Flow 3		8.0	17	50	50	9.5	23			46		0	
Coefficient (F _p)(F _p) Prover Pressure psia Plactor F _m XH _w P _m XH _w P _m			,		,		FLOW STR	EAM ATTRI	BUTES						
(OPEN FLOW) (DELIVERABILITY) CALCULATIONS (P ₂) ² = 1.056: (P _w) ² = .529: P ₀ = .9% (P _c -14.4) + 14.4 = (P _c) ²	Coeffieci	ient ,)	Metenor Prover Pressure		Extension	Fact	or 1	Temperature Factor	re Peviation		R	(Cubic Fe	1	Gravity	
(OPEN FLOW) (DELIVERABILITY) CALCULATIONS (P ₂) ² = 1.056: (P _w) ² = .529: P ₀ = .9% (P _c -14.4) + 14.4 = (P _c) ²	.88	6	21	5	19.12	1.00	1.	0.0	1.00		16 9	N/A		N/A	
Checked by:						(OPEN FLO	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P _s)			
Per Port Complision (Pc) 2- (Pg) 2 ($P_c)^* = 1$. 05	<u> </u>	(P _w)* =		P ₀ = .		/ο (P _c	- 14.4) +	14.4 =	 :	(P _a))* =		
Standard Slope .849 .527 .1.611 .2071 .850 .1760 .1.500 .25.4 Deliverability Mcfd @ 14.65.psia Deliverability Mcfd @ 14.65 psia The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts ated therein, and that said report is true and correct. Executed this, the4th	or	•	(P _c) ² - (P _w) ²		1. P _c ² · P _s ² 2. P _c ² · P _d ²	formula 1. or 2. and divide	P2. P2	Slope	e = "n" or	nxl	.og	Antilog	Delin Equals	verability R x Antilog	
The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts ated therein, and that said report is true and correct. Executed this the 4th day of May 19200 Witness (if any) MAY 10201 For Company Checked by					divided by: Pc2 - Pw	by:	<u></u>	Standa	rd Slope						
The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts ated therein, and that said report is true and correct. Executed this the4th	.849		. 5	27	1.611	.207	1	.850		1.17	760	1.500	25	. 4	
The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts ated therein, and that said report is true and correct. Executed this the4th	Open Flow	v 2	5.4		Mcfd @ 14.6	5.psia		Deliverabilit	v	<u> </u>		Mcfd @ 14.65 psi	 a		
Witness (if any) Witness (if any) For Company Checked by	The u				behalf of the Co	mpany, stat	es that he is			e the abo				the facts	
Witness (if any) For Company Checked by	lated there	ein, ar	nd tha	t said report	is true and corre	ct. Execute	d this the	4th	day of		// 0	0 1		<u>g 200</u> 1	
For Commission Checked by				Witness (i	if any)		YAMı	10 200	ì		,—			-	
				For Comm	nission				00.63	/	Che	cked by			

I declare under penalty or perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Lobo Production, Inc. and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named. I hereby request a permanent exemption from open flow testing for the Hendrich 3-5 gas well on the grounds that said well:
is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No. X is incapable of producing at a daily rate in excess of 150 mcf/D
Signature:

Instructions:

All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets 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 obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be 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.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.