State of Kansas - Corporation Commission
Multipoint Back Pressure Test

Form CG-1
(Rev. 10/96)

Type Test: ☑ Initial ☐ Annual ☐ Special Test Date: **03/10/2011**

Company	Lease	Well Number
OXY USA Inc	**LONGBOTHAM 5**	

County	Location	Section	TWP	RNG (E/W)	Acres Attributed
Haskell	**330' FSL & 1070' FWL**	**3**	**30S**	**32W**	**0**

API No.	Reservoir	Pipeline Connection
15081219270000	**St Louis**	**Oneok Field Services**

Completion Date	Plug Back Total Depth	Packer Set at
01/00/1900	**5,634'**	

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
5 1/2"	**17.0#**	**4.892"**	**5,688'**	**5,552'**	**5,561'**

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To

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Type Completion (Describe)	Type Fluid Production	
Single	**Oil/Water**	

Producing Thru (Annulus / Tubing)	Reservoir Temperature °F	BAR PRESS - P_a
Annulus	**135**	**14.4 Psia**

Gas Gravity - G_g	% Carbon Dioxide	% Nitrogen
0.691	**0.406%**	**12.302%**

Vertical Depth (H)	Type Meter Connection	(Meter Run) (Prover) Size
5,557'	**Flange**	**3.068"**

OBSERVED DATA Duration of Shut-in **72** Hours

Rate No	Orifice Size (inches)	Circle One: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H_2O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Casing psia	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Tubing psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In					**0**	**1259.5**	**1273.9**	**0.0**	**0.0**	**72**	
1	**2.250**	**102.5**	**16.6**	**65**	**75**	**1235.4**	**1249.8**	**0.0**	**0.0**	**1**	**1**
2	**2.250**	**111.9**	**65**	**44**	**75**	**1182.4**	**1196.8**	**0.0**	**0.0**	**1**	**1**
3	**2.250**	**131.5**	**99.5**	**42**	**75**	**1122.0**	**1136.4**	**0.0**	**0.0**	**1**	**1**
4	**2.250**	**132.3**	**116.4**	**47**	**75**	**1001.1**	**1015.5**	**0.0**	**0.0**	**1**	**1**
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RATE OF FLOW CALCULATIONS

Rate No	Plate Coefficient (F_b) (F_p) Mcfd	Circle One: Meter Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F_g	Flowing Temperature Factor F_t	Deviation Factor F_{pv}	Rate of Flow Q Mcfd	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G_m
1	**29.52**	**116.9**	**44.05**	**1.2030**	**0.9952**	**1.010**	**1572**		
2	**29.52**	**126.3**	**90.61**	**1.2030**	**1.0157**	**1.012**	**3307**		
3	**29.52**	**145.9**	**120.49**	**1.2030**	**1.0178**	**1.014**	**4415**		
4	**29.52**	**146.7**	**130.67**	**1.2030**	**1.0127**	**1.014**	**4763**		
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PRESSURE CALCULATIONS

Rate No	P_t Psia	P_c Psia	P_w Psia	$(P_c)^2$ Thousands	$(P_w)^2$ Thousands	Plotting Points $(P_c)^2 - (P_w)^2$ Thousands	Plotting Points Q Mcfd	% Shut-In $100 \frac{(P_w - P_a)}{(P_c - P_a)}$
1		**1273.9**	**1249.8**	**1622.8**	**1562.0**	**60.8**	**1572**	**98.1%**
2		**1273.9**	**1196.8**	**1622.8**	**1432.3**	**190.5**	**3307**	**93.9%**
3		**1273.9**	**1136.4**	**1622.8**	**1291.4**	**331.4**	**4415**	**89.1%**
4		**1273.9**	**1015.5**	**1622.8**	**1031.2**	**591.6**	**4763**	**79.5%**
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Indicated Wellhead Open Flow **12,030** Mcfd @ 14.65 psia "n" = **0.631**

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 stated therein, and that said report is true and correct. Executed this the **10** day of **March**, **2011**.

Witness (If any)

OXY USA INC.
For Company

For Commission

Tom Acton - OXY USA Inc
Checked by

LONGBOTHAM 5 Section 3, T30S, R32W Haskell County, Kansas