

**KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2
(Rev. 8/98)

TYPE TEST:

- Open Flow
 Deliverability

TEST DATE: 9-28-10 API No. **15-057-20596-0000**

Company Ritchie Exploration		Lease O Slash-Hill Trust			Well Number 1
County Ford	Location E/2 E/2 NE	Section 2	TWP 28s	RNG(E/W) 23w	Acres Attributed 640
Field Steel	Reservoir Mississippian	Gas Gathering Connection Superior Pipeline			
Completion Date 7-6-10	Plug Back Total Depth 5164	Packer Set at			
Casing Size 4.500	Weight 10.500	Internal Diameter 4.052	Set at 5199	Perforations 5054	To 5068
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 5069	Perforations	To
Type Completion (Describe) New Well	Type Fluid Production none	Pump Unit or Traveling Plunger? NO			
Producing Thru (Annulus/Tubing) Tubing	% Carbon Dioxide 0.087	% Nitrogen 9.531	Gas Gravity- Gg 0.662		
Vertical Depth (ft) 5061	Pressure Taps Flange	Meter Run Size 3.067			
Pressure Buildup: Shut in	9-24-10	TAKEN	8:00		
Well on Line: Started	9-27-10	TAKEN	13:34		

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H ₂ O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P _w) (P _t) (P _c)		Tubing WellHead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						1028	1042	847	861	75.0	
Flow	1.500	55.9	0.80	94		970	984	701	715	28.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcf/d	GOR	G _m
11.410	70.3	7.50	1.2291	0.9688	1.0046	102		0.662

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 1086.6 (P_w)² = 969.0 P_d = 1.5 % (P_c - 14.4) + 14.4 = (P_a)² = 0.207
(P_d)² = 0.25

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$ or $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
1086.39	117.55	9.242	0.9657	0.963	0.9300	8.512	871
1086.35	117.55	9.241	0.9657	0.963	0.9300	8.511	871

OPEN FLOW 871 Mcfd @ 14.65 psia DELIVERABILITY 871 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 stated herein and that said report is true and correct. Executed this the 28 day of September, 2011

Witness (if any)

For Commission

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For Company

OCT 07 2010

Checked by

KCC WICHITA

Field Measurements

Company: Ritchie Exploration
Well / Lease Name: O Slash-Hill Trust 1
Unique Well ID: 2-28s-23w Ford Co KS
Test Type: Initial 4 point & 1 point

Job Number:
Formation:
Field:
Pool:

			Wellhead		Gas Orifice Meter 1					
	Date	Time	Tubing Press	Casing Press	Static Press	Meter Temp	Differential Press	Plate Size	Gas Rate (Inst)	Gas Cum
	YYYY/MM/DD	HH:mm:ss	psi(g)	psi(g)	psi(g)	°F	in of H ₂ O	in	Mscfd	MMscf
1	2010/10/27	13:30:00	847.0	1028.0	0.0	0.0	0.0	0.000	0.000	0.000
2		13:45:00	817.0	1005.0	13.7	87.0	1.1	1.500	76.302	0.001
3		14:00:00	807.0	997.0	13.7	89.0	0.6		57.637	0.001
4		14:15:00	797.0	987.0	13.7	91.0	0.7		61.831	0.002
5		14:30:00	789.0	976.0	13.6	92.0	0.7		61.236	0.003
6			1st point							
7	2010/10/27	14:45:00	766.0	960.0	13.9	94.0	3.8		140.192	0.004
8		15:00:00	750.0	938.0	13.9	94.0	3.5		134.348	0.005
9		15:15:00	738.0	927.0	13.8	94.0	3.1		125.558	0.007
10		15:30:00	727.0	920.0	13.7	94.0	3.0		123.168	0.008
11			2nd point							
12	2010/10/27	15:45:00	703.0	901.0	14.1	94.0	7.3		193.660	0.010
13		16:00:00	689.0	892.0	14.0	93.0	6.3		179.671	0.011
14		16:15:00	674.0	880.0	14.0	93.0	6.3		179.781	0.013
15		16:30:00	665.0	864.0	13.9	93.0	5.8		173.106	0.015
16			3rd point							
17	2010/10/27	16:45:00	636.0	843.0	14.3	92.0	9.8		226.034	0.017
18		17:00:00	625.0	832.0	14.2	92.0	9.1		217.599	0.020
19		17:15:00	617.0	823.0	14.2	92.0	9.0		216.520	0.022
20		17:30:00	606.0	813.0	15.8	92.0	8.5		216.385	0.024
21			4th point							
22	2010/10/28	17:30:00	701.0	970.0	55.9	94.0	0.8		99.740	0.182

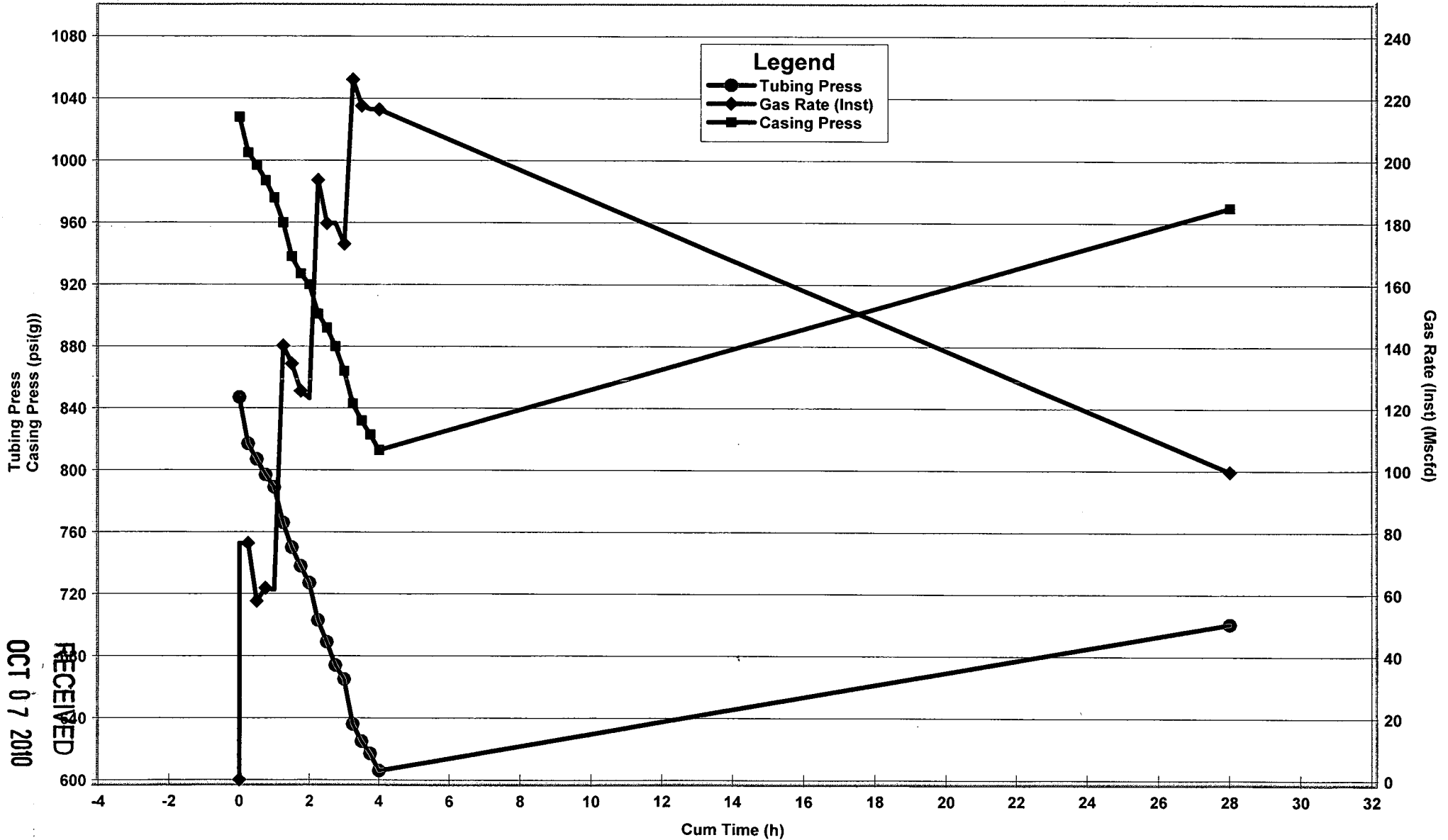
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From 2010/10/27 13:30:00 **To** 2010/10/28 06:00:00
Gas Cum 0.106 MMscf **Gas Cum** 0.106 MMscf
Oil Cum bbl **Oil Cum** bbl
Water Cum bbl **Water Cum** bbl
Cond Cum bbl **Cond Cum** bbl

Plot 1

Company: Ritchie Exploration
Well / Lease Name: O Slash-Hill Trust 1
Unique Well ID: 2-28s-23w Ford Co KS
Test Type: Initial 4 point & 1 point

Job Number:
Formation:
Field:
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