

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

15-119-21272-00-00

Test Date:
2/10 to 2/11/10

Company Hess Oil Co		Lease Adams			Well Number 1-30
County Meade	Location N/2SWSENW	Section 30	TWP 34	RNG (EW) 30W	Acres Attributed
Field Kneeland South		Reservoir Upper Chester Lime		Gas Gathering Connection Regency	
Completion Date 10/14/10		Plug Back Total Depth 5850 CIBP		Packer Set at none	
Casing Size 4.5	Weight	Internal Diameter	Set at 6231	Perforations 5720	To 5788
Tubing Size 2.375	Weight	Internal Diameter	Set at 5744	Perforations	To
Type Completion (Describe) single		Type Fluid Production SW		Pump Unit or Traveling Plunger? Yes / No Yes - pump unit	
Producing Thru (Annulus / Tubing) annulus		% Carbon Dioxide .1620		% Nitrogen 2.729	Gas Gravity - G _g .650
Vertical Depth(H)		Pressure Taps flange			(Meter Run) (Prover) Size 3"
Pressure Buildup: Shut in 2/07 20 11 at 10:30 am (AM) (PM) Taken 2/10 20 11 at 10:30 am (AM) (PM)					
Well on Line: Started 2/10 20 11 at 12:15 pm (AM) (PM) Taken 2/11 20 11 at 12:15 PM (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in 72 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						236	250.4			72	
Flow	.750	96	10.0	33		219	233.4			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_w \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
2.740	110.4	33.23	1.240	1.027		116		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 62.700 : (P_w)² = 54.475 : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_w)² = 0.207
(P_d)² = _____

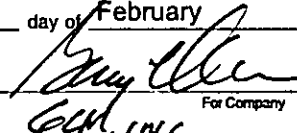
(P _c) ² - (P _w) ² or (P _c) ² - (P _d) ²	(P _w) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _w ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
62.493	8.225	7.598	.8806	.741	.6525	4.49	520

Open Flow 520 Mcfd @ 14.65 psia X .50 = Deliverability 260 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 therein, and that said report is true and correct. Executed this the 28th day of February, 20 11.

Witness (if any)

For Commission



For Company
CCH, INC.
Checked by

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MAR 04 2011

KCC WICHITA

STATE OF KANSAS - CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM CG-1 Rev.

TYPE TEST: Initial Annual Special TEST DATE: 2/10/11

COMPANY Hess Oil Co LEASE Adams WELL NO: 1-30

COUNTY Meade LOCATION N2SWSENW SECTION 30 TWP 34S RNG (E/W) 30W ACRES

API WELL NUMBER 15-119-21,258-0000 RESERVOIR Upper Chester Lime PIPELINE CONNECTION Regency

COMPLETION DATE 10/14/10 PLUG BACK TOTAL DEPTH 5858 CIBP PACKER SET AT none

CASING SIZE 4 5 WT. ID. SET AT 6231 PERF. 5720 TO 5788

TUBING SIZE 2.375 WT. ID. SET AT 5744 PERF. TO

TYPE COMPLETION (Describe) single TYPE FLUID PRODUCTION SW

PRODUCING THRU annulus RESERVOIR TEMPERATURE °F BAR PRESS -P_s 14.4 Psia

GAS GRAVITY -G_s 650 % CARBON DIOXIDE 1620 % NITROGEN 2.729 API GRAVITY OF LIQUID

VERTICAL DEPTH (H) TYPE METER CONNECTION flange tap (METER RUN) (PROVER) SIZE 3"

REMARKS Tested into Regency pipeline (200"EFM)

OBSERVED DATA DURATION OF SHUT-IN 72 HR.

RATE NO.	ORIFICE SIZE in	(METER) (PROVER) PRESSURE Psig	DIFF. (h _w) (h _s)	FLOWING TEMP t	WELL-HEAD TEMP. t	CSG WELLHEAD PRESS. Psig (P _w)(P _s) Psia		TBG WELLHEAD PRESS. Psig (P _w)(P _s) Psia		FLOW DURATION (HOURS)	LIQUID PROD. Bbls.
						P _w	P _s	P _w	P _s		
SHUT IN						236	250.4			72	
1	.750	89	16.6	35		226	240.4			.75	0
2	"	90	31.2	36		219	233.4			.75	0
3	"	90	53.0	37		211	225.4			.75	0
4	"	91	79.9	38		204	218.4			.75	0

RATE OF FLOW CALCULATIONS

RATE NO.	COEFFICIENT (F ₁)(F ₂) Mcfd	(METER) (PROVER) PRESSURE Psia	PRESS EXTENSION $\sqrt{P_w \cdot h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _w	RATE OF FLOW Q Mcfd	GOR (ft ³ /Bbl)	G _s
1	2.740	103.4	41.42	1.240	1.025	--	144		
2	"	104.4	57.07	"	1.024	--	198		
3	"	104.4	74.38	"	1.023	--	258		
4	"	105.4	91.77	"	1.022	--	319		

PRESSURE CALCULATIONS

RATE NO.	P _i Psia	P _c Psia	P _w Psia	(P _w) ² THOUSANDS	(P _s) ² THOUSANDS	FLOTTING POINTS		% SHUT-IN (P _w - P _s) / 100 (P _c - P _s)
						(P _w) ² - (P _s) ² THOUSANDS	Q Mcfd	
1		250.4	240.4	62.7	57.7	5.0	144	95.7
2		"	233.4	"	54.5	8.2	198	93.2
3		"	225.4	"	50.8	11.9	258	90.0
4		"	218.4	"	47.7	15.0	319	87.2

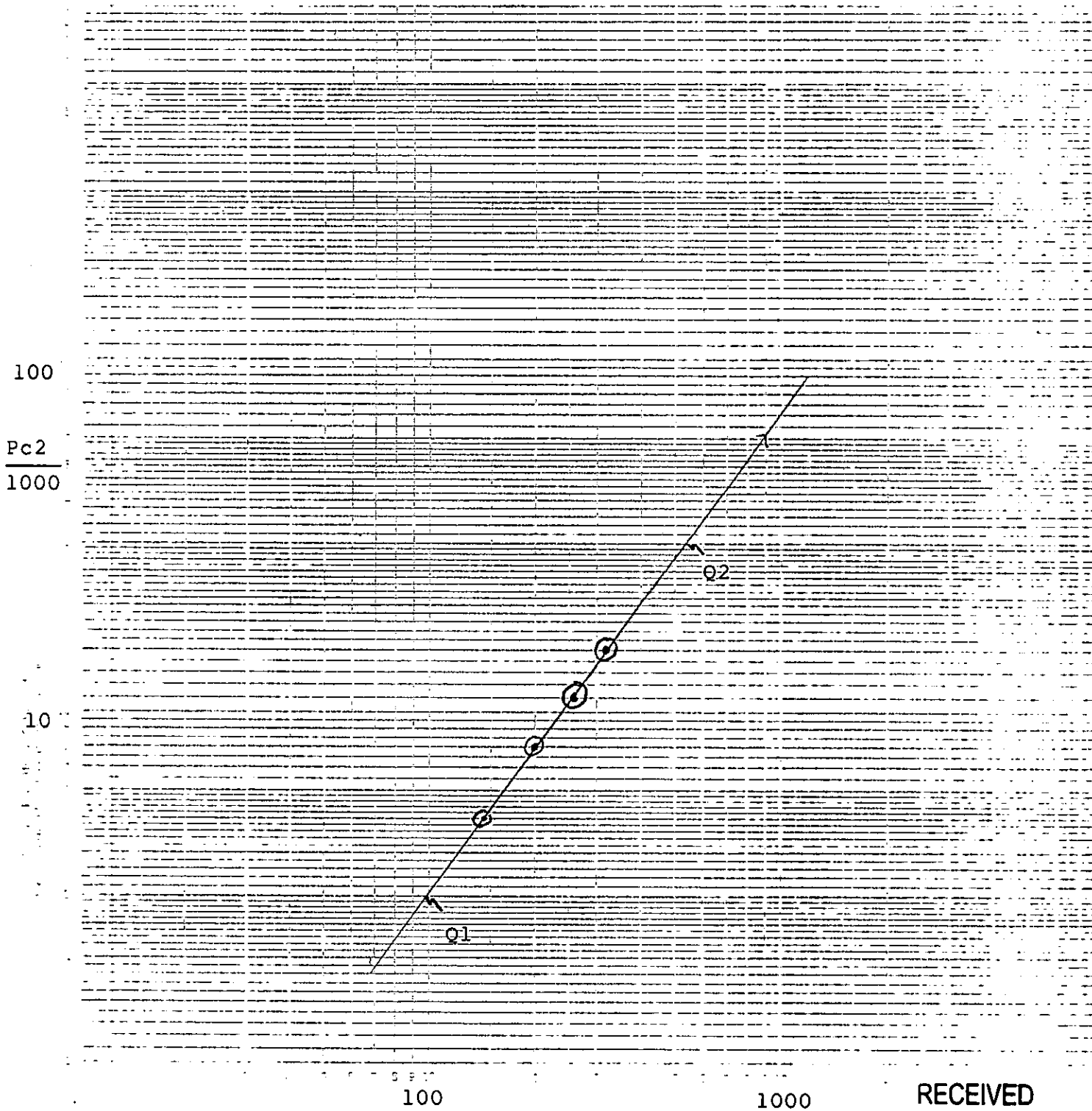
INDICATED WELLHEAD OPEN FLOW 900 Mcfd @ 14.65 Psia $\eta = .741$

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 28th day of February, 2011

Witness (if any) _____ For Company
 _____ For Commission

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 KCC WICHITA
 Checked By _____ (Rev.10/96)

Hess Oil Co. - Adams 1-30
N/2SWSENW 30-34S-30W
Meade County
Tested 2/10/11



Q2 - 540 - Log: 2.732
Q1 - 98 - Log: 1.991
"n" = .741

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Lease & Contract Information										
Plant Name	Gathering System Name	Production Date	Accounting Date	Lease Name	Allocation Decimal	Meter Number	State	County	Contract Number	Pressure Base
MOCANE GAS SYSTEM	01	1/2011	1/2011	ADAMS 1-30	1.0000000	986516 A	KS	MEADE	5055PUR 0	14 730

Co Pty ID	31249 1
Co Pty Name	HESS OIL COMPANY
Opr ID	31249 1
Opr Name	HESS OIL COMPANY

Settlement Summary							
Keepwhole Volume	Wellhead Gas Value	Residue Value	Product Value	Gross Value	Fees & Adjustments	Tax Reimbursement	Net Value
0.00	\$0.00	\$22,701.37	\$13,481.79	\$36,183.16	\$1,092.63	\$1,620.63	\$33,469.90

Wellhead Information		
	Mcf	MMBTU
Gross Wellhead	6,619.30	7,284.21
Split	1.0000	
Bypass Gas Producer WH.	6,619.30	7,284.21
Net Delivered:	6,354.33	6,992.84
Inlet:	5,998.87	7,015.62
BTU As Del:	1,1176	
BTU Dry:	1,1200	
BTU Wet:	1,1004	

Product Settlement									
	Theoretical Gallons	Allocated Gallons	Shrink MMBTU	Net % Share	Settlement Gallons	Price	Product Value		
ETHANE	8,754.64	5,641.82	374.28	94.00	5,303.31	\$0.3689	\$1,956.55		
PROPANE	4,633.09	4,466.84	409.09	94.00	4,198.83	\$1.2143	\$5,098.66		
ISO BUTANE	727.59	709.44	70.68	94.00	666.88	\$1.6820	\$1,121.68		
NORMAL BUTANE	1,560.67	1,506.86	156.32	94.00	1,416.44	\$1.5569	\$2,205.22		
PENTANES PLUS	2,193.58	1,641.79	185.36	94.00	1,543.29	\$2.0085	\$3,099.68		
	17,869.57	13,966.75	1,195.64		13,128.74		13,481.79	2386,49	

Residue Allocation		Residue Returned:	
Shrink MMB:	1,195.64	Residue Returned:	0.00
Plant Fuel/Flare/UA MMB:	109.26		

Residue Settlement			
Settlement Residue MCF/MMB	Contract %	Price	Residue Value
5,769.83/5,687.94	94.00	4.2459	22,701.37

Taxes			
Tax Type	Taxed Quantity	Tax Rate	Tax Due
KSCO	6,655.45	\$0.0129	\$85.86
KSSV	35,090.53	\$0.0433	\$1,519.42
KSWI	30,704.21	\$0.0005	\$15.35
Total	72,450.19	0.06	1,620.63

Fees & Adjustments			
GATHERING	Basis	Rate	Value
	7,284.21	\$0.1500	\$1,092.63
Total	7,284.21		1,092.63

Gas Analysis Information		
Components	Mol %	GPM
H2S	0.0000	
Nitrogen	2.7290	
Carbon Dioxide	0.1620	
Other Inerts	0.0000	
Methane	87.2190	
Ethane	5.1390	1.3777
Propane	2.6400	0.7291
Iso Butane	0.5490	0.1145
Nor Butane	0.7770	0.2456
Iso Pentane	0.1950	0.0715
Nor Pentane	0.2240	0.0814
Hexane	0.3978	0.1923
Totals	100.00	2.8121

Plant Contact
Contact Name: BOB SIMS
Contact Phone No.: (214)-840-5456

Comments
<p>RECEIVED MAR 04 2011 KCC WICHITA</p>

FIELD DATA SHEET

Pumper:
Phone#: **620-655-4348**

Type Test: Initial Annual Special Test Date: **2/10/11**

Company: **Hess Petr.** Connection: **Revenly**

Field: _____ Reservoir: _____ Location: _____

Completion Date: _____ Total Depth: _____ Plug Back TD: _____ Elevation: _____ Form or Lease Name: **ADAMS**

Csg. Size: _____ In. d. Set At: _____ Perforations: From _____ To _____ Well No.: **1-30**

Tbg. Size: _____ In. d. Set At: _____ Perforations: From _____ To _____ Sec. Top - Blk Rgs - Sw

Type Completion (Describe): **SINGLE** Packer Set At: _____ County or Parish: **MERDE**

Producing Thru: **CSG** Reservoir Temp. F: _____ Mean Annual Temp. F: **60** Doro. Press. - P: **14.4** State: **KS**

G_o **.652** (% CO₂) % N₂ % H₂S Prover Meter Run **3"** Taps **FL6**

DATE	ELAP. TIME	WELLHEAD WORKING PRESSURE			METER OR PROVER				REMARKS
		Tbg. Psig	Csg. Psig	ΔP	Pressure Psig	Diff.	Temp. F	Orifice	
10:30	72		236						COULD NOT LIGHT LINE HEATER - SUPPLY GAS FADZL OLT
									CALLER REVENLY TO CHANGE ORIFICE PLATE & ADJUST METER -
12:15								750	COMMENCE TEST
									COULD NOT READ THE DISPLAY (EFM) - DISCONNECTED FULL SUPPLY -
			234		88	4.5	31		BATCHED IN METER HANDLE & CLEARED
			230		89	14.3	35		FREEZE - LT LINE HEATER @ 17:00hrs
			226		89	16.4	35		
			224		89	29.8	35		
			221		90	31.0	36		2.5070 230
			219		90	31.2	36		5.0070 224
									7.5070 218
			214		90	51.9	36		10.0070 212
			213		90	52.6	37		12.5070 206
			211		90	53.0	37		15.0070 200
									17.5070 195
			208		90.5	81.0	37		20.0070 189
			206		91	80.1	38		25.0070 177
3:15			204		91	79.9	38		
3:30			225		92	10.9	39		> SHUT IN TO REDUCE LEAKING 1" VALVE - HAD FROZEN/BROKEN BODY
12:15			219		96	10.0	33		SET RATE FOR 1 PT TEST 110 MCF/D
									> 1 PT TEST 2/11/11
	0.0								
	0.5								Begin 30 minute wellhead buildup
	1.0								
	1.5								
	2.0								
	3.0								
	4.0								
	5.0								
	6.0								
	7.0								
	8.0								
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