

JAN 1950

SIDE TWO

Operator Name Midwestern Exploration Co. Lease Name..... National Beef Well #..... 1-34

Sec..... 34 Twp..... 34S Rge..... 33 East West County..... Seward

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
Samples Sent to Geological Survey Yes No
Cores Taken Yes No

Formation Description
 Log Sample

DST #1 Lower Morrow 6073-6125' 30,60,60,120
LHH 3106
IF 64-48 weak blow increasing to strong
ISI 1610
FF 64-48 strong blow
FSI 1900 GTS in 43 min. - 50 min. 6.55 Mcf -
60 min. 8.22 Mcf.
FHH 3090
Recovered 60' GCDM T-138°
Sampler: 16 PSI - .03 cu. ft. gas - 1800 cc mud -
1200 GL

Name	Top	Bottom
Hollenberg	2624	
Herrington	2651	
Krider	2682	
Winfield	2742	
U. Fort Riley	2815	
Council Grove	2986	
Topeka	3533	
Heebner	4361	
Toronto	4384	
Lansing	4440	
Marmaton	5256	
Cherokee	5584	
Morrow	5852	
Lower Morrow	6086	
Chester	6132	
Lower Chester	6394	
St. Gen.	6486	
St. Louis	6640	

DST #2 Upper Chester 6142-6230' 30,60,60,120
LHH 3170
IF 64-64 weak blow increasing to strong
ISI 209
FF 80-80 weak blow increasing to fair blow
FSI 709
FHH 3138 T-140°
Recovered 60' DM - No show

CASING RECORD New Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
Surface		8.5/8"	24#	1595'	Lite	570	1/8# D130 2% cc
					Class C	150	1/8# D130 2% cc
Production		4 1/2"	10.5#	6358'	Class H	150	5% KCL - 6/10% Halad 322

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
	SEE ATTACHED SHEET		

TUBING RECORD Size 2 3/8" Set At 6085' Packer at _____ Liner Run Yes No

Date of First Production _____ Producing Method Flowing Pumping Gas Lift Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	1 Bbls	400 MCF	1 Bbls		CFPB

METHOD OF COMPLETION _____ Production Interval _____

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 6134-6212'
 Used on Lease Dually Completed Commingled 6072-94'

207897

Midwestern Exploration Co.
National Beef #1-34
Section 34-34S-33W
Seward Co., Kansas

PERFORATION RECORD

2 SPF 2820-2821'
2 SPF 6204-6212'
2 SPF 6190-6196'
2 SPF 6174-6178'
2 SPF 6134-6140'
2 SPF 6072-6078'
2 SPF 6086-6094'

ORIGINAL

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Acid 2500 gallons 15% FE Acid
Acid 3500 gallons 15% FE Acid
Squeeze 150 sx Class H
Acid 40,000 gallons 70 Quality Foamed 20% Acid
Acid 1500 Gallons 7½% Spearhead Acid
Frac 25,000 gallons 70 Quality Foam
Frac 10,000 gallons 40# gelled KCL water
25,000 gallons 75 Quality West Foam

RECEIVED
STATE CORPORATION COMMISSION

MAY 24 1989

CONSERVATION DIVISION
Wichita, Kansas

STATE OF KANSAS - CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM O-2
8-7-58

5-7-90

TYPE TEST: Deliverability Open Flow TEST DATE: 4-22-90

COMPANY: Midwestern Exploration LEASE: National Beef WELL NO.: 1-34

COUNTY: Seward LOCATION: SECTION 34 TWP: 34S RNG: 33W ACRES:

FIELD: Morrow-Chester RESERVOIR: PIPELINE CONNECTION: Centana Energy Corp.

COMPLETION DATE: 4-6-89 PLUG BACK TOTAL DEPTH: 6302 PACKER SET AT:

CASING SIZE	WT.	I.D.	SET AT	PERF.	TO
4 1/2	10.5		6358	6072-6094 /	6134-6212
TUBING SIZE	WT.	I.D.	SET AT	PERF.	TO
2 3/8	4.7	1.995	6085		

TYPE COMPLETION (Describe): Single Gas TYPE FLUID PRODUCTION:

PRODUCING THRU: Tubing RESERVOIR TEMPERATURE: BAR. PRESS - P_a: 14.4 Psia

GAS GRAVITY - G_r: .647 % CARBON DIOXIDE: % NITROGEN: API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): 6142 TYPE METER CONN.: Flange (METER RUN) (PROVER) SIZE: XX 3"

SHUT-IN PRESSURE: SHUT IN 4-18 19 90 AT 8:00 (AM) TAKEN 4-21 19 90 AT 8:00 (AM)

FLOW TEST: STARTED 4-21 19 90 AT 8:00 (AM) TAKEN 4-22 19 90 AT 8:00 (AM)

OBSERVED DATA DURATION OF SHUT-IN 72 HR.

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psia	DIFF. in. (h _w)(h _d)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASINO WELLHEAD PRESS		TUBING WELLHEAD PRESS		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _i)(P _c) psia	psig	(P _w)(P _i)(P _c) psia		
SHUT-IN						538.2	552.6	537.8	552.2	72	
FLOW	1.000	139.7	5	57		339.8	354.2	301.5	315.9	24	-0-

RATE OF FLOW CALCULATIONS

COEFFICIENT (P _c)(P _d) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_{m}h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
4.912	154.1	27.7579	1.243	1.003	1.016	173		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 305.4 (P_w)² = 125.5 P_d² = 36.9 % (P_c - 14.4) + 14.4 = (P_a)² = 0.207
(P_d)² =

$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$	(P _c) ² - (P _w) ²	$\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
305.2	179.9	1.6965	0.2296	0.563	0.1292	1.3466	232.9

OPEN FLOW 233 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 stated herein and that said report is true and correct.

Executed this the 23rd. day of April, 19 90 *Clad Horkinson*

HOSCO Operating, Inc.
For Company

Witness (if any) _____
For Commission _____

Checked by _____

THE STATE CORPORATION COMMISSION
OF THE STATE OF KANSAS

Before Commissioners: Keith R. Henley, Chairman
Rich Kowalewski
Margalee Wright

In the matter of the application of)	DOCKET NO. CO 7897
MIDWESTERN EXPLORATION CO.)	
for an order authorizing the)	CONSERVATION DIVISION
commingling of production from the)	
Lower Morrow and Upper Chester)	LICENSE NO. 5263
sources of supply in the National)	
Beef #1-34 well located in the NW/4)	
of Section 34, Township 34 South,)	
Range 33 West, Seward County,)	
Kansas.)	

O R D E R

The above-captioned matter comes on for consideration and determination by the State Corporation Commission of the State of Kansas. Being fully advised in the premises; the Commission finds and concludes that:

1. The application in this docket properly was filed; pursuant to the regulations of the Commission and the laws of the State of Kansas.
2. Proper notice has been furnished to all interested parties. No protests were filed.
3. Based on the requirements of the Commission's regulations, the staff of the Conservation Division recommended approval of the application which seeks authority to commingle production.
4. Estimated current production of the subject well from the Lower Morrow source of supply is 1 BO, 1 BW, & 250 MCFPD. Estimated current production from the Upper Chester source of supply is 1 BW & 150 MCFPD. The total estimated current production from both sources of supply in the subject well is 1 BO & 2 BW & 400 MCFPD. Applicant seeks authority to produce both sources of supply simultaneously, through the same tubing string.
5. Commingling from the two common sources of supply in the manner stated will prevent waste, permit the recovery of oil and/or gas from the respective sources of supply which would otherwise be lost, and protect correlative rights of the royalty owner, applicant, offset operators, and the public generally.

