

Drill Stem Test Information for ACO-1
Hugoton Energy Corporation
MLP Sigka A #1-34
Sec. 34-29S-35W, Grant County, KS
API #15-067-21295

34-29S-35W

DST 1

Test Interval: 4416' - 4469'

Times: 30-60-30-60

First Open: Weak to strong blow - off bottom of bucket in 6 minutes..

Second Open: Very weak to strong blow in 8 minutes.

Recovery 100' Mud Cut Water
 905' SI Gas Cut Saltwater

Pressures IHP 2233
 IFP 77-378
 ISIP 1292
 FFP 415-548
 FSIP 1273
 FHP 2188

CONFIDENTIAL

ORIGINAL

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CONFIDENTIAL

DST 2

Test Interval: 5310' - 5416'

Times: 30-27-30-30

First Open: Weak 1/2 inch in bucket, decreased to surface blow.

Second Open: No blow.

Recovery 20' Mud

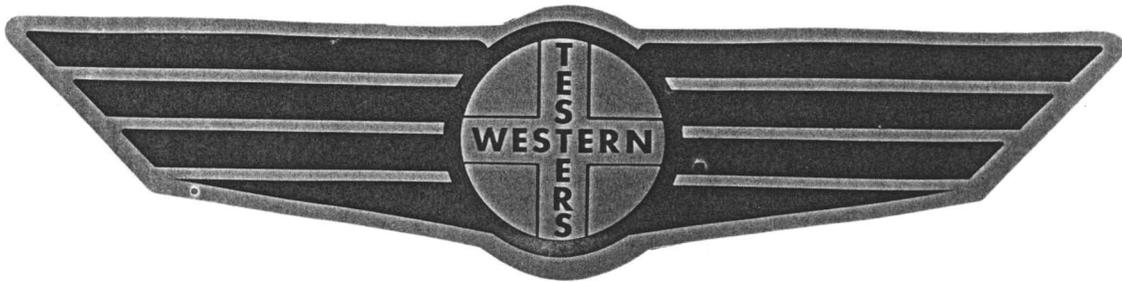
Pressures IHP 2637
 IFP 35-35
 ISIP 123
 FFP 39-39
 FSIP 98
 FHP 2556

RELEASED

DEC 11 1996

FROM CONFIDENTIAL

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 9-23-94	TICKET : 20850
CUSTOMER : HUGOTON ENERGY CORP.	LEASE : MLP SIGKA A
WELL : #1-34 TEST: 1	GEOLOGIST: COVEY
ELEVATION: 2987 KB	FORMATION: LANSING
SECTION : 34	TOWNSHIP : 29S
RANGE : 35W COUNTY: GRANT	STATE : KS
GAUGE SN#: 10242 RANGE : 4100	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4416.00 ft	TO: 4469.00 ft	TVD: 4469.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 4423.0 ft	4426.0 ft	
TEMPERATURE: 114.0		

DRILL COLLAR LENGTH: 530.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 3858.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 28.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 53.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5 XH
PACKER DEPTH: 4411.0 ft	SIZE:	6.625 in
PACKER DEPTH: 4416.0 ft	SIZE:	6.625 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : VAL ENERGY #2	
MUD TYPE : CHEMICAL	VISCOSITY : 41.00 cp
WEIGHT : 9.100 ppg	WATER LOSS: 8.800 cc
CHLORIDES : 1700 ppm	
JARS-MAKE : WESTERN	SERIAL NUMBER: 408
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD- WEAK TO STRONG BLOW- OFF
 BOTTOM OF BUCKET IN 6 MINUTES.
 FINAL FLOW PERIOD - VERY WEAK TO STRONG BLOW IN

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

8 MINUTES.
NITRATED CHLORIDES 66000 PPM

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
100.0	0.0	0.0	68.0	32.0	MUD CUT WATER
905.0	0.0	2.0	98.0	0.0	SL GAS CUT SALTWATER
0.0	0.0	0.0	0.0	0.0	W/STRONG SULPHUR ORDOR
0.0	0.0	0.0	0.0	0.0	RW .085 @ 60 DEGREES F
0.0	0.0	0.0	0.0	0.0	CHLORIDES 109000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	55.0000 min.
GAS VOLUME:	0.8834 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.4488 STB	AVERAGE WATER RATE:	238.5546 STB/D
WATER VOLUME:	8.6626 STB		
TOTAL FLUID :	9.1115 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2233.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	77.00	378.00
INITIAL SHUT-IN	60.00		1292.00
FINAL FLOW	30.00	415.00	548.00
FINAL SHUT-IN	60.00		1273.00

FINAL HYDROSTATIC PRESSURE: 2188.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2253.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	25.00	90.00	379.00
INITIAL SHUT-IN	60.00		1297.00
FINAL FLOW	30.00	426.00	549.00
FINAL SHUT-IN	57.00		1270.00

FINAL HYDROSTATIC PRESSURE: 2190.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 9-23-94	TICKET	: 20850
CUSTOMER	: HUGOTON ENERGY CORP.	LEASE	: MLP SIGKA A
WELL	: #1-34	TEST:	1
ELEVATION:	2987 KB	GEOLOGIST:	COVEY
SECTION	: 34	FORMATION:	LANSING
RANGE	: 35W	COUNTY:	GRANT
GAUGE SN#:	10242	RANGE	: 4100
		STATE	: KS
		CLOCK	: 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	90.00	90.00
5.00	150.00	60.00
10.00	241.00	91.00
15.00	306.00	65.00
20.00	342.00	36.00
25.00	379.00	37.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1103.00	1103.00	0.00
6.00	1154.00	51.00	0.00
9.00	1186.00	32.00	0.00
12.00	1211.00	25.00	0.00
15.00	1225.00	14.00	0.00
18.00	1239.00	14.00	0.00
21.00	1249.00	10.00	0.00
24.00	1257.00	8.00	0.00
27.00	1262.00	5.00	0.00
30.00	1270.00	8.00	0.00
33.00	1272.00	2.00	0.00
36.00	1279.00	7.00	0.00
39.00	1282.00	3.00	0.00
42.00	1285.00	3.00	0.00
45.00	1287.00	2.00	0.00
48.00	1290.00	3.00	0.00
51.00	1292.00	2.00	0.00
54.00	1294.00	2.00	0.00
57.00	1296.00	2.00	0.00
60.00	1297.00	1.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	426.00	426.00
5.00	433.00	7.00
10.00	459.00	26.00
15.00	491.00	32.00
20.00	518.00	27.00
25.00	546.00	28.00
30.00	549.00	3.00

FINAL SHUT IN

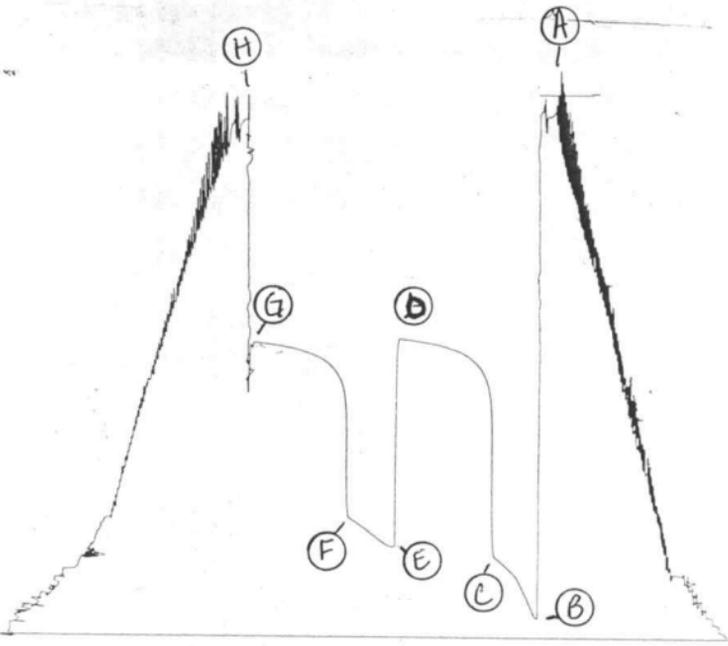
Time (min)	Pressure	Delta P	Horner T
3.00	1095.00	1095.00	0.00
6.00	1144.00	49.00	0.00
9.00	1177.00	33.00	0.00
12.00	1198.00	21.00	0.00
15.00	1214.00	16.00	0.00
18.00	1222.00	8.00	0.00
21.00	1233.00	11.00	0.00
24.00	1238.00	5.00	0.00
27.00	1248.00	10.00	0.00
30.00	1253.00	5.00	0.00
33.00	1260.00	7.00	0.00
36.00	1264.00	4.00	0.00
39.00	1266.00	2.00	0.00
42.00	1270.00	4.00	0.00
45.00	1271.00	1.00	0.00
48.00	1274.00	3.00	0.00
51.00	1278.00	4.00	0.00
54.00	1278.00	0.00	0.00
57.00	1270.00	-8.00	0.00

Kit # 20850

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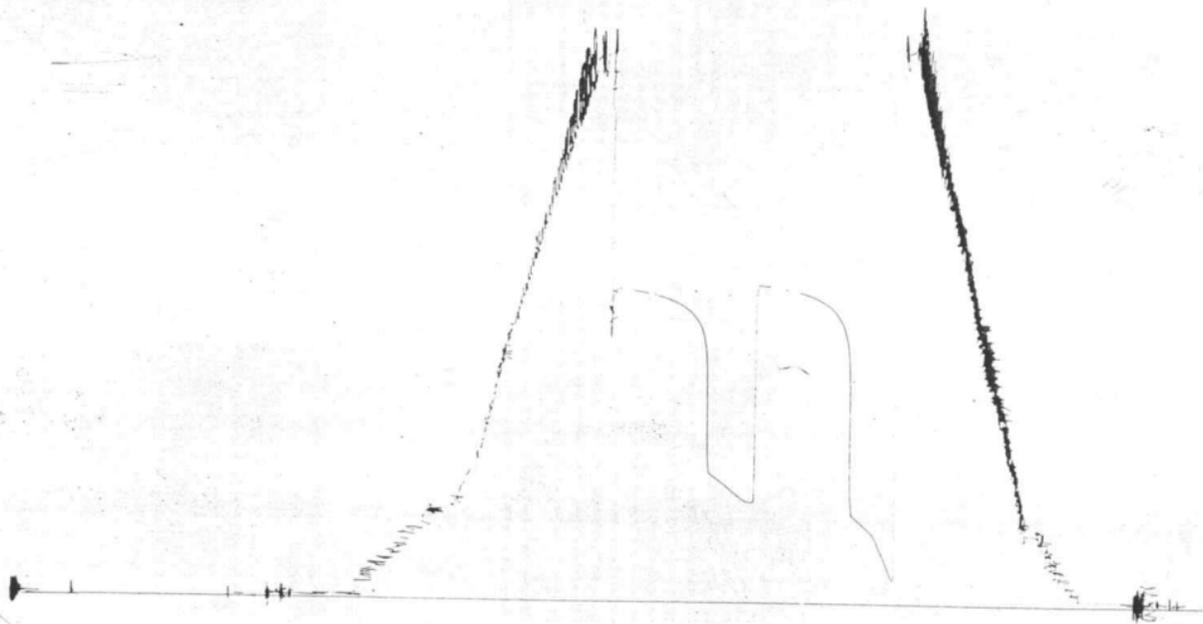


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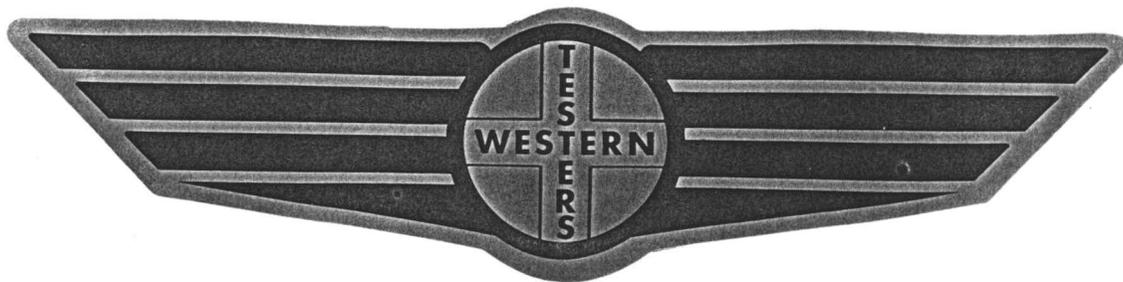
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FORMATION TEST REPORT



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P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 9-27-94	TICKET	: 20726
CUSTOMER	: HUGOTON ENERGY CORP.	LEASE	: MLP SIGKA A
WELL	: #1-34	TEST:	2
ELEVATION:	2987 KB	GEOLOGIST:	COVEY
SECTION	: 34	FORMATION:	UPPER MORROW SS
RANGE	: 35W	COUNTY:	GRANT
GAUGE SN#:	10242	STATE	: KS
		RANGE	: 4100
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	5310.00 ft	TO:	5416.00 ft	TVD:	5416.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	5312.0 ft		5315.0 ft		
TEMPERATURE:	129.0				
DRILL COLLAR LENGTH:	530.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	4752.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	106.0 ft	ANCHOR SIZE:		5.500 in	
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:		0.750 in	
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :		4.5 XH	
PACKER DEPTH:	5305.0 ft	SIZE:		6.625 in	
PACKER DEPTH:	5310.0 ft	SIZE:		6.625 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	VAL ENERGY #2	VISCOSITY :	45.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	9.200 ppg	SERIAL NUMBER:	408
CHLORIDES :	1800 ppm	REVERSED OUT?:	NO
JARS-MAKE :	WESTERN		
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD-WEAK 1/2 INCH IN BUCKET,
DECREASED TO SURFACE BLOW.
FINAL FLOW PERIOD- NO BLOW

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
20.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0983	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0983	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2637.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	35.00	35.00
INITIAL SHUT-IN	30.00		123.00
FINAL FLOW	30.00	39.00	39.00
FINAL SHUT-IN	30.00		98.00

FINAL HYDROSTATIC PRESSURE: 2556.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2740.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	42.00	42.00
INITIAL SHUT-IN	27.00		130.00
FINAL FLOW	30.00	47.00	47.00
FINAL SHUT-IN	30.00		107.00

FINAL HYDROSTATIC PRESSURE: 2544.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9-27-94	TICKET : 20726
CUSTOMER : HUGOTON ENERGY CORP.	LEASE : MLP SIGKA A
WELL : #1-34 TEST: 2	GEOLOGIST: COVEY
ELEVATION: 2987 KB	FORMATION: UPPER MORROW SS
SECTION : 34	TOWNSHIP : 29S
RANGE : 35W COUNTY: GRANT	STATE : KS
GAUGE SN#: 10242 RANGE : 4100	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	42.00	42.00
5.00	42.00	0.00
10.00	42.00	0.00
15.00	42.00	0.00
20.00	42.00	0.00
25.00	42.00	0.00
30.00	42.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	80.00	80.00	0.00
6.00	90.00	10.00	0.00
9.00	97.00	7.00	0.00
12.00	105.00	8.00	0.00
15.00	111.00	6.00	0.00
18.00	118.00	7.00	0.00
21.00	124.00	6.00	0.00
24.00	127.00	3.00	0.00
27.00	130.00	3.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	47.00	47.00
5.00	47.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
10.00	47.00	0.00
15.00	47.00	0.00
20.00	47.00	0.00
25.00	47.00	0.00
30.00	47.00	0.00

FINAL SHUT IN

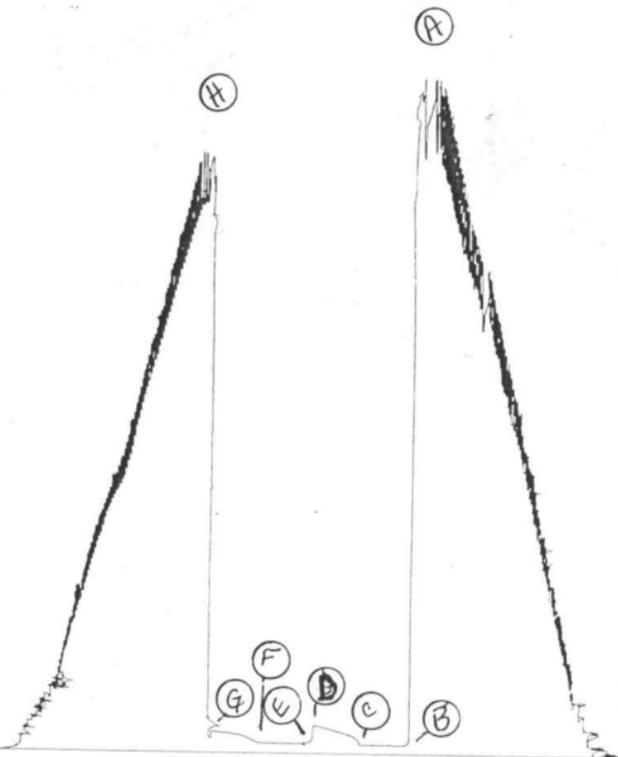
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	50.00	50.00	0.00
6.00	62.00	12.00	0.00
9.00	73.00	11.00	0.00
12.00	80.00	7.00	0.00
15.00	85.00	5.00	0.00
18.00	89.00	4.00	0.00
21.00	91.00	2.00	0.00
24.00	93.00	2.00	0.00
27.00	96.00	3.00	0.00
30.00	107.00	11.00	0.00

Jkt # 20726

10242 DST 2

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Jkt # 20726

13759 DST 2

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