

ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACD-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 175-21,288 0050

County Seward

AND EL-W12 NW NW Sec. 12 Twp. 33S Rge. 32 X

Operator: License # 8458

660 Feet from S (circle one) Line of Section

Name: Transwestern Operating Company

990 Feet from E (circle one) Line of Section

Address P. O. Box 276

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

City/State/Zip Golden, CO 80402

Lease Name Sowers Well # 1

Purchaser: _____

Field Name Kismet West

Operator Contact Person: Doug Isern

Producing Formation _____

Phone (303) 279-2995

Elevation: Ground 2803' KS 2812'

Contractor: Name: Murfin Drilling Company, Inc.

Total Depth 6278' PSTD 6250'

License: 30606

Amount of Surface Pipe Set and Cemented at 16180 Feet

Wellsite Geologist: _____

Multiple Stage Cementing Collar Used? Yes No

Designate Type of Completion
 New Well Re-Entry Workover

If yes, show depth set _____ Feet

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cat.

If Workover/Re-Entry: old well info as follows:

Drilling Fluid Management Plan DAB old 1 JH 7-18-94
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content _____ ppm Fluid volume _____ bbls

Well Name: _____

Dewatering method used _____

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: _____

Deepening Re-perf. Conv. to inj/SWD
 Plug Back PSTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or inj?) Docket No. _____

Operator Name _____

Lease Name _____ License No. _____

12-01-92 12-15-92 12-18-92
Spud Date Date Reached TD Completion Date

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature [Signature]

Title President Date 1-15-93

Subscribed and sworn to before me this 15 day of January, 19 93.

Notary Public [Signature]

Date Commission Expires 4-19-93

K.S.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
 XCC
 XSS
STATE CORPORATION COMMISSION
RECEIVED
JAN 22 1993
CONSERVATION DIVISION
WICHITA, KANSAS
Form ACD-1 (7-91)

pl

Operator 1100 Transwestern Operating Company Lease Name Sowers Well # 1

Sec. 11 Twp. 33S Rge. 32 East West County Seward

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
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run: **DUAL INDUCTION**
COMPENSATED DENSITY

Log Name	Formation (Top)	Depth and Datum	Sample Datum
	KRIDER	2654	
	HEEBNER	4200	
	MARMATON	5610	
	CHESTER	5720	
	ST. GENEVIEU	5930	

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> 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
conductor		20"		41'	R&W		
surface	12 1/4"	8-5/8"		1618'	lite Class A	510 150	2%CC

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate	Top	Bottom			
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. RECEIVED Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water lbs.	Gas-Oil Ratio	Gravity
<u>100</u>					

Disposition of Gas Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Other (Specify) _____

Production Interval Completed

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name SOWERS #1 Test No. 1 Date 12/13/92
 Company TRANSWESTERN OPERATING COMPANY Zone MORROW
 Address P.O. BOX 276 GOLDEN CO 80402 Elevation _____
 Co. Rep./Geo. RON OSTERBUHR Cont. MURFIN RIG #21 Est. Ft. of Pay _____
 Location: Sec. 11 Twp. 33S Rge. 32W Co. SEWARD State KS

Interval Tested	<u>5610-5865</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>255</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>5605</u>	Drill Collar - 2.25 Ft. Run	<u>320</u>
Bottom Packer Depth	<u>5610</u>	Mud Wt.	<u>9.2</u> lb/Gal.
Total Depth	<u>5865</u>	Viscosity	<u>55</u> Filtrate <u>8</u>

Tool Open @ 9:40 PM Initial Blow WEAK BLOW 2.5"

Final Blow WEAK BLOW-1/2" DEAD IN 40 MINUTES

Recovery - Total Feet 130 Flush Tool? NO

Rec. <u>130</u>	Feet of	<u>DRILLING MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 135 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2740.3 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 46.9 PSI @ (depth) 5613 w / Clock No. 27594

(C) First Final Flow Pressure 58.3 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 154.2 PSI @ (depth) 5618 w / Clock No. 25814

(E) Second Initial Flow Pressure 66.3 PSI AK1 Recorder No. _____ Range _____

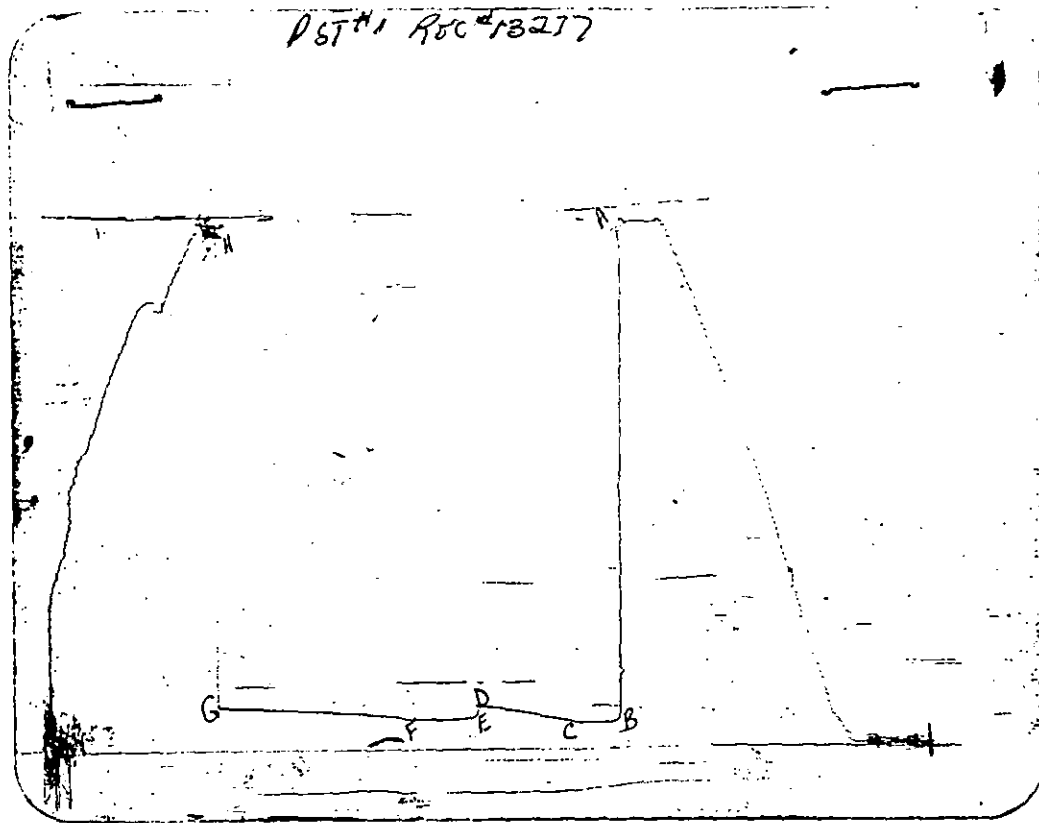
(F) Second Final Flow Pressure 68.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 159.5 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2699.1 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative JOHN RIEDL

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2722	2740.3
(B) FIRST INITIAL FLOW PRESSURE	41	46.9
(C) FIRST FINAL FLOW PRESSURE	47	58.3
(D) INITIAL CLOSED-IN PRESSURE	150	154.2
(E) SECOND INITIAL FLOW PRESSURE	56	66.3
(F) SECOND FINAL FLOW PRESSURE	58	68.4
(G) FINAL CLOSED-IN PRESSURE	152	159.5
(H) FINAL HYDROSTATIC MUD	2694	2699.1

FLUID SAMPLER DATA

ORIGINAL

Ticket No.: 4960 Date: 12/13/92
 Company: TRANSWESTERN OPERATING COMPANY
 Lease: SOWERS #1 Test No.: 1
 County: SEWARD Sec.: 11 Twp.: 33S Rng.: 32W

SAMPLER RECOVERY

Gas
 Oil
 Mud 4000
 Water
 Other
 Pressure 25
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 2000
 Resistivity 2.8 ohms@ 70 F
 Viscosity 55
 Mud Wt. 9.2
 Filtrate 8
 Other

SAMPLER ANALYSIS

Resistivity ohms@ F
 Chlorides ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

JAN 13 1993

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

NO. 4960

Well Name & No. SOWERS #1 Test No. 1 Date 12/13/92
 Company TRANSWESTERN OPERATIONS COMPANY Zone Tested ~~XXXXXXXXXX~~
 Address P.O. BOX 276 GOLDEN CO. 80402 Elevation MOKRAN 50
 Co. Rep./Geo. RON OSTERBUHR Cont. MURFIN #21 Est. Ft. of Pay _____
 Location: Sec. 11 Twp. 33S Rge. 32W Co. SEWARD State KANSAS
 No. of Copies 6 Distribution Sheet _____ Yes (NO) Turnkey (YES) (NO) Evaluation _____

Interval Tested 5610 - 5865 Drill Pipe Size 4 1/2 XH
 Anchor Length 255 FT Top Choke - 1" _____ Bottom Choke - 1/4" _____
 Top Packer Depth 5605 Hole Size - 7 7/8" _____ Rubber Size - 6 3/4" _____
 Bottom Packer Depth 5610 Wt. Pipe I.D. - 2.7 Ft. Run 0
 Total Depth 5265 Drill Collar - 2.25 Ft. Run 320 FT
 Mud Wt. 9.2 lb/gal. Viscosity 55 Filtrate 8.8
 Tool Open @ 9:40 P.M. Initial Blow WEAK BLOW 2 1/2"

Final Blow WEAK BLOW 1/2" DEAD IN 40 MINUTES

Recovery - Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>130</u>	<u>0</u>	<u>NO</u>
Rec. <u>130</u> Feet Of <u>DRILLING MVP</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 135 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2,000 ppm System

- (A) Initial Hydrostatic Mud 2722 PSI Ak1 Recorder No. 13277 Range 4125
- (B) First Initial Flow Pressure 41 PSI @ (depth) 5613 w/Clock No. 27594
- (C) First Final Flow Pressure 47 PSI AK1 Recorder No. 11038 Range 5075
- (D) Initial Shut-in Pressure 150 PSI @ (depth) 5618 w/Clock No. 25814
- (E) Second Initial Flow Pressure 56 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 58 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-in Pressure 152 PSI Initial Opening 30 Test ✓
- (H) Final Hydrostatic Mud 2694 PSI Initial Shut-in 60 Jars ✓

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 45 Safety Joint ✓
 Final Shut-in 120 Straddle _____
 Circ. Sub ✓ NOT USED
 Sampler ✓

Approved By Ron Osterbuh
 Our Representative John Beall

Extra Packer _____
 Other _____
 TOTAL PRICE \$ 115000

TRILOBITE TESTING, L.L.C.

ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SOWERS #1 Test No. 2 Date 12/16/92
Company TRANSWESTERN OPERATING COMPANY Zone ST LOUIS
Address P.O. BOX 276 GOLDEN CO 80402 Elevation 2812
Co. Rep./Geo. RON OSTERBUHR Cont. MURFIN RIG #21 Est. Ft. of Pay _____
Location: Sec. 11 Twp. 33S Rge. 32W Co. SEWARD State KS

Interval Tested 6180-6278 Drill Pipe Size 4.5" XH
Anchor Length 98 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 6175 Drill Collar - 2.25 Ft. Run 497
Bottom Packer Depth 6180 Mud Wt. 9.4 lb/Gal.
Total Depth 6278 Viscosity 85 Filtrate 8.8

Tool Open @ 4:15 PM Initial Blow SURFACE BLOW - PACKER FAILED CAUSING TOOL TO SLIDE 2' TO BOTTOM-STEADY BLOW THROUGHOUT
Final Blow NO RETURN BLOW FOR 20 MINUTES-SURFACE RETURN STEADY THROUGHOUT/ FSI: NO BLOW BACK

Recovery - Total Feet 630 Flush Tool? NO

Rec. 630 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 132 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 3122.4 PSI AK1 Recorder No. 13339 Range 4025

(B) First Initial Flow Pressure 274.5 PSI @ (depth) 6185 w / Clock No. 27566

(C) First Final Flow Pressure 274.5 PSI AK1 Recorder No. 13309 Range 4700

(D) Initial Shut-in Pressure 1845.6 PSI @ (depth) 6200 w / Clock No. 25810

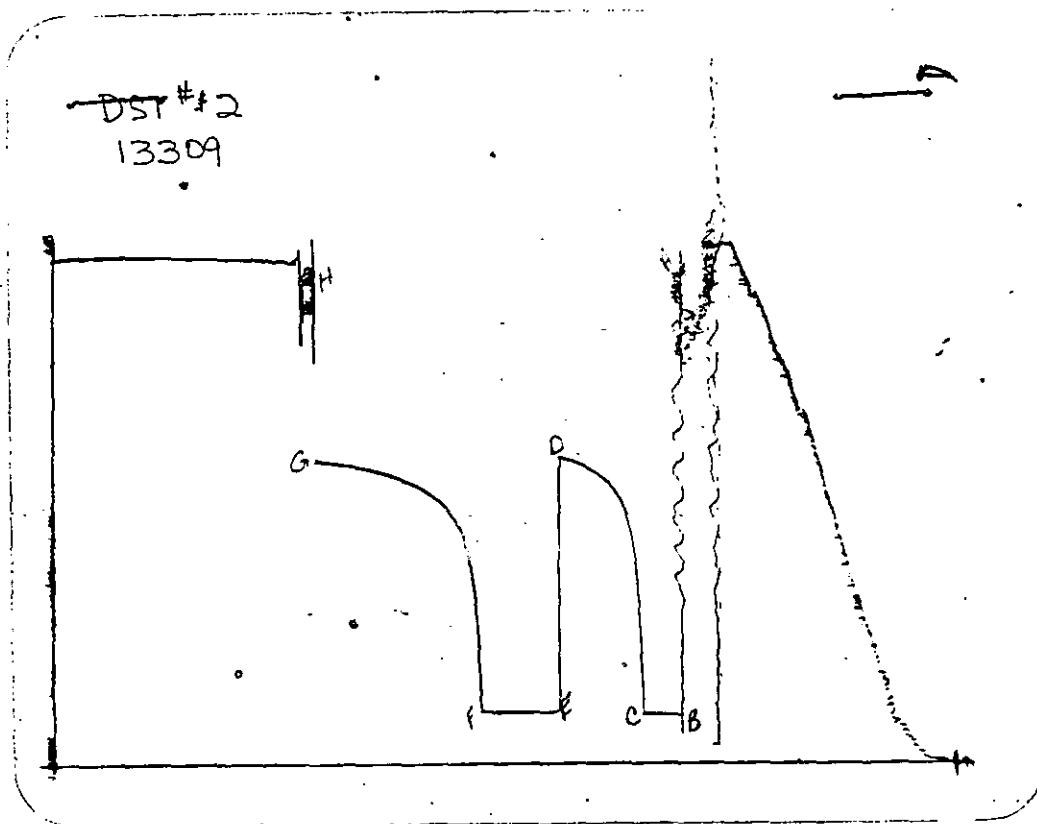
(E) Second Initial Flow Pressure 305.8 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 305.8 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1825.6 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 3060.4 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative ROD STEINBRINK



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	3118	3122.4
(B) FIRST INITIAL FLOW PRESSURE	270	274.5
(C) FIRST FINAL FLOW PRESSURE	270	274.5
(D) INITIAL CLOSED-IN PRESSURE	1842	1845.6
(E) SECOND INITIAL FLOW PRESSURE	301	305.8
(F) SECOND FINAL FLOW PRESSURE	301	305.8
(G) FINAL CLOSED-IN PRESSURE	1822	1825.6
(H) FINAL HYDROSTATIC MUD	3058	3060.4

FLUID SAMPLER DATA

ORIGINAL

Ticket No.: 5647 Date: 12/16/92
 Company: TRANSWESTERN OPERATING COMPANY
 Lease: SOWERS #1 Test No.: 2
 County: SEWARD Sec.: 11 Twp.: 33S Rng.: 32W

SAMPLER RECOVERY

Gas
 Oil
 Mud 4000
 Water
 Other
 Pressure 25
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 3000
 Resistivity ohms@ F
 Viscosity 85
 Mud Wt. 9.4
 Filtrate 8.8
 Other

SAMPLER ANALYSIS

Resistivity ohms@ F
 Chlorides ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

No 5647

Well Name & No. Sowers #1 Test No. 2 Date 12-16-92
 Company Transwestern Operating Co. Zone Tested St. Louis
 Address P.O. Box 276 Golden, CO. 80403 Elevation 2812 (GL)
 Co. Rep./Geo. Ron Osterbuhr cont. Murfin #21 Est. Ft. of Pay _____
 Location: Sec. 11 Twp. 33^S Rge. 32^W Co. Seward State KS
 No. of Copies 5 Distribution Sheet Yes X No Turnkey X Yes _____ No _____ Evaluation _____

Interval Tested 6180 - 6278 Drill Pipe Size 4 1/2" XH
 Anchor Length 98' Top Choke - 1" _____ Bottom Choke - 1/4" _____
 Top Packer Depth 6175 Hole Size - 7 7/8" _____ Rubber Size - 6 3/4" _____
 Bottom Packer Depth 6180 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Total Depth (RTD) 6278 Drill Collar - 2.25 Ft. Run 497'
 Mud Wt. 9.4 lb/gal. Viscosity 85 Filtrate 8.8

Tool Open @ 4:15 pm Initial Blow Surface blow - packer failed causing tool to slid 2' to bottom - steady blow throughout.
 Final Blow No return blow f/20 mins - surface return steady thru.
FSI: No blow back.

Recovery - Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>630'</u>	_____	<u>No</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>630'</u> Feet Of <u>Drig. Mud</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 132° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3,000 ppm System

- (A) Initial Hydrostatic Mud 3118 PSI AK1 Recorder No. 13339 Range 4025
- (B) First Initial Flow Pressure 270 PSI @ (depth) 6185 w/Clock No. 27566
- (C) First Final Flow Pressure 270 PSI AK1 Recorder No. 13309 Range 4700
- (D) Initial Shut-In Pressure 1842 PSI @ (depth) 6200 w/Clock No. 25810
- (E) Second Initial Flow Pressure 301 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 301 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 1822 PSI Initial Opening 30 Test 800
- (H) Final Hydrostatic Mud 3058 PSI Initial Shut-In 60 Jars X

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 60 Safety Joint X
 Final Shut-In 120 Straddle _____
 Circ. Sub X N/C
 Sampler X

Approved By Ron Osterbuhr

Our Representative Rod Steinbrink

Extra Packer _____

Other _____

ORIGINAL

DEC 22 '92 09:47 MURFIN DRILLING 3162672004

P. 1/2

FAX #343/277-6281

9697

Well Code #

Operator Tranovskyan Operating Co. Well No. & Name Sowers #1
 Location 660' 5" NL 990' 5" NL Sec 11-335-32W County Seward State Mo.
 Rig No. 21 Contractor _____ Tool Pusher _____
 No. Drill Collars _____ Size _____ No. Joints Flex Wt. _____ Size _____ Total Wt. (Both) _____
 Make Pump _____ Liner & Stroke _____ Max. Pressure _____
 Approx. TD _____ Elevation _____ Spud 10:00 am 12/1/92

Date	11/24	12/1	12/2	12/3	12/4	12/5	12/6	12/7	12/8	12/9	12/10	12/11
Days	Swirl		2	3	4	5	6	7	8	9	10	11
Depth	loc	MIRK	480	1623	1685	2690	3470	3975	4214	4660	5050	5390
FL Out	move	(MOC)	480	1143	62	1005	780	505	239	446	390	340
D.T. When			1/2 pump	0	14:00	0	1/2 pump	1/2 pump	5:00	1/2 pump	1/2 pump	0
D.T. During			1/2 (MOC)		3/4 pump		1/4 pump			1/2 pump	1/4 pump	
C.T. permits			0	0	0	0	0	0	0	0	0	0
Bit Wt	loc		5-10	5-30	20	35	35/38	35		38		40
HPM	shell		120	120	75	80	75/80	75/80	75	75	80	80
Pressure	clean		1000	1000	1000	1000	1000	1000	700	1000	1100	1100
SPM	2		64	64	62	64	52	52	64	64	65	64
Mud Cost			\$785	\$804	\$1494	\$1105	\$2277	\$3898	\$4390	\$4639	\$5352	\$6538
Mud Wt.			9.2	9.3	Nature	9.0	9.0	8.8	9.0	9.1	9.0	9.1
Viscosity			32	34		30	30	41	40	42	43	42
Water Loss								16.0	11.2	15.2	15.2	14.4
Clorides				2000			54000	22000	5000	4500	4000	2000
L.C.M.				28		1#	trace					
Dev. Sur.			1/4" 159	1" 219		1" 2008		3/4" 3526	1/6" 4000			
Formation			sa	sa	sh	sh	ms sh	ms sh	ms sh	ms sh	ms sh	ms sh
Weather			clear	clear	cloud	snow	clear	clear	clear	fog	clear	clear

NO.	SIZE	TYPE	OUT	FT.	HRS.	CUM. HRS.	BIT COND.			SERIAL #	TOPS
							T	B	G		
1	12 1/4 Sec	S335 (R)	1623	1582	207 1/2	85 1/2				555787	MHY 1588-1608
1	7 7/8 WM	42 PE	4000	2377	62 1/2	85 1/2				N761000	*Free Bit *
2	✓ WM	52 SF	5786	1786	104 1/4	189 3/4				N76313	181600
3	L H	AT 22	5865	77	8 3/4	198 1/2				M89 BS	
4	L H	AT 22	6278	413	24 1/2	223				SX 00PJ	
HC - 5:45 AM 12/15 Log - 12:01 AM → 5:30 AM 12/16 → 5:15 AM 12/16 LTD - 6274 WOO											

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	DRILLED OUT	REMARKS
41'	20"	R1W	510 Rate			Well Back - 44'
1618	8 5/8	660	150 Class A 20cc	12:15 AM 12/3	RECEIVED	Circ 1/2 Bbl - 44'

NO.	INTERVAL	OPEN	SHUT	OPEN	SHUT	REC	MISSION	IFP	ISIP	FFP	FSIP
1	5610-5865	30	100	60	120	130'	JUL 1 A 1991	41	150	56	152
2	6180-6278	30	60	60	120	630'					
perforations, 60' of OC Double pin back, 30' of Bull plug, and any recorder. Total 50' of well casing showing on final shut in log. No fishing tools now.											
12/18 - well in hole w/ 5 1/2" triplex - bumper sub + joints. Over fish - Jerald Juice cleaned out w/ 1 1/2" string. Recovered fish.											
Surface Casing Furnished By: <u>MOC</u>											
Accidents & Remarks: <u>36 JTS - 11620.49</u>											
12/7/92 - stuck triplex BOP @ 2:00 pm Spotted 60 Bbl oil											

12/7/92 - stuck triplex BOP @ 2:00 pm Spotted 60 Bbl oil
 @ 10:00 am - Free @ 1:15 AM 12/16/92

ORIGINAL

Well Code # _____

Operator _____ Well No. & Name _____
 Location _____ County _____ State _____
 Rig No. 21 Contractor _____ Tool Pusher _____
 No. Drill Collars _____ Size _____ No. Joints Flex Wt. _____ Size _____ Total Wt (Both) _____
 Make Pump _____ Liner & Stroke _____ Max. Pressure _____
 Approx. TD _____ Elevation _____ Spud _____

Date	12/12	12/13	12/14	12/15	12/16	12/17	12/18	12/19
Days	12	13	14	15	16	17	18	19
Depth	5715	5825	5865	6120	6278	6278	6278	6278
Ft. Cut	325	110	40	265	148	0	0	0
D.T.	0	874 pump	0	0	24 pump	18 pump	10 pump	0
D.T.	—	174 pump	—	—	14 pump	62 pump	34 pump	—
C.T.	0	3/4	20 1/2	7/4	13/4	—	—	0
Bit Wt	40	—	—	—	—	—	—	—
RPM	80	—	—	85	—	—	—	—
Pressure	1200	1000	—	—	—	—	—	—
SPM	65	64	—	—	—	—	—	—
Mud Cost	\$9405	\$10,466	—	\$10,554	\$11,625	\$12,198	—	—
Mud Wt.	9.1	9.1	9.2	9.1	9.3	9.4	—	—
Viscosity	48	52	55	52	61	65	—	—
Water Loss	8.0	8.0	8.8	8.8	12.5	8.8	—	—
Clorides	2000	2000	2000	2000	2000	2000	—	—
L.C.M.	—	—	—	—	2#	4#	—	—
Dev. Sur.	—	—	105865	—	106278	—	—	—
Formation	lmsly	lmsly	Moran	lmsly	lmsly	—	—	—
Weather	clr	Snow	Snow	pc	lt snow	fog	clr	—

NO.	SIZE	TYPE	OUT	FT.	MRS.	CUM. MRS.	BIT COND.	SERIAL	TOPS
1	2962'	100 lb	60/40	675	Set	2500			
2	1090'	50							
3	600'	40							
4	40'	10							
5	RT	15							
JC - 11:00 AM 12/18/92 all had Orders: Steve Maddalena Alex Carlson was on the rig while plugging									

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	GRILLED OUT	REMARKS

NO.	INTERVAL	OPEN	SHUT	OPEN	SHUT	REC	HM	IFP	ISIP	FFP	FSIP

Surface Casing Furnished By: _____
 Accidents & Remarks: _____
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STATE RECEIVED
 COMMISSION
 JAN 1 R 1993
 CONCUSSION