

ORIGINAL

SIDE ONE

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

API NO. 15- 175-21189-00-00
County Seward OCT 7
C NE NW Sec. 16 Twp. 33S Rge. 3E East West
Irregular Section
approx. 3700 Ft. North from Southeast Corner of Section
3300 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

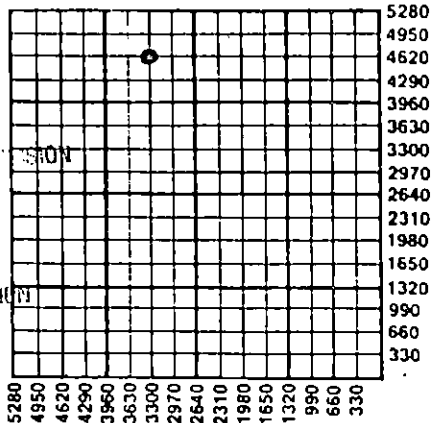
Operator: License # 5263
Name: Midwestern Exploration Co.
Address P. O. Box 1884
Liberal, Kansas 67905-1884

Lease Name Swalar Well # 1-16
Field Name Liberal Southeast
Producing Formation None
Elevation: Ground 2830 KB 2844
Total Depth 6723 PBTD

Purchaser: _____
Operator Contact Person: Harold K. Frauli
Phone (316) 624-8388
Contractor: Name: Sage Drilling Co., Inc.
License: 5421
Wellsite Geologist: Joe Blair

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp. Cur.
 Dry Other (Core, Water Supply, etc.)

NOV 8 1991



If ~~OWMO~~ old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
Drilling Method:
 Mud Rotary Air Rotary Cable
8/2/91 8/15/91 8/16/91
Spud Date Date Reached TD Completion Date

Amount of Surface Pipe Set and Cemented at 1635 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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.

RELEASED

Signature Dale J. Lollar
Title Dale J. Lollar, Vice-President Date 11-07-92
Subscribed and sworn to before me this 7th day of November 19 91.
Notary Public Mary Morgan
Date Commission Expires August 3, 1992

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)



91

SIDE TWO

Operator Name Midwestern Exploration Co. Lease Name Swalar Well # 1-16
 Sec. 16 Twp. 35 Rge. 33 East County Seward
 West

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: center;">Formation Description</th> </tr> <tr> <td></td> <td style="text-align: center;"><input type="checkbox"/> Log</td> <td style="text-align: center;"><input checked="" type="checkbox"/> Sample</td> </tr> <tr> <th style="text-align: left;">Name</th> <th style="text-align: center;">Top</th> <th style="text-align: center;">Bottom</th> </tr> <tr> <td>Morrow Shale</td> <td style="text-align: center;">5912</td> <td></td> </tr> <tr> <td>Mississippian</td> <td style="text-align: center;">6224</td> <td></td> </tr> <tr> <td>St. Louis</td> <td style="text-align: center;">6630</td> <td></td> </tr> </table>	Formation Description				<input type="checkbox"/> Log	<input checked="" type="checkbox"/> Sample	Name	Top	Bottom	Morrow Shale	5912		Mississippian	6224		St. Louis	6630	
Formation Description																			
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Name	Top	Bottom																	
Morrow Shale	5912																		
Mississippian	6224																		
St. Louis	6630																		

CASING RECORD <input checked="" type="checkbox"/> New <input 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
Surface	12 1/2	8 5/8"	24	1635	Poz/c	565/150	2% cc
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
	Size	Set At	Packer At				
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)						
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		

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

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Conningled

Other (Specify) _____

Production Interval _____

Formation Marmaton Type Test Conventional Date / August 11, 1991
 Anchor Length and Size 52'; 31' X 6" OD-D.C., 21' X 4 1/2" OD-Perf. ~~CONFIDENTIAL~~
 Packer Depths 5290' & 5295' Below Straddle Choke Size Bottom 5/8" Surface 1/4"
 Equipment Run 2 Packers, Jars, Sample Chamber, Safty joint, Circ. sub.

Lengths: Tool 85' D.P. 4696' ID 3.8" Wt. P. ID D.C. 580' ID 2.25"
 Mud Type Chemical Vls. 48 Wt. 9.1 Wtr. Loss 9.7 Cl. 3750 ppm

Recorders:
 Depth 5308' Make Kuster Cap. 6500 Ser. No. 10269 Inside
 Depth 5312' Make Kuster Cap. 6800 Ser. No. 10217 Outside
 Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ 7:30 A.M. Initial Hydrostatic 2524 psi
 Initial Flow 29 Min. IFP 61 psi to 70 psi
 Initial Shut-In 58 Min. ISIP 1414 psi
 Final Flow 60 Min. FFP 83 psi to 96 psi
 Final Shut-In 118 Min. FSIP 1504 psi
 Tool off Bottom @ 12:00 N.M. Final Hydrostatic 2508 psi Temp. 118

Blow: Weak increasing to fair on both flow periods.

Recovery: 100' Slightly Oil & Gas Cut Mud. Top sample- 3,000 PPM Cl.
 Bottom sample- 19,000 PPM Cl.

Gas Flow:

Sampler Data:
 Pressure 55 PSI
 Gas 0.02 cu. ft.
 Total Fluid 2000 cc
 Oil Trace (est. 5 cc) cc
 Water --- cc
 Mud 2000 26,000 PPM Cl. cc
 Oil Gravity _____ °F.
 Gas/Oil Ratio _____

Remarks:
 RECEIVED
 STATE CORPORATION COMMISSION
 DEC 0 5 1991
 CONSERVATION DIVISION
 Wichita, Kansas
 RELEASED
 DEC 0 8 1992
 FROM CONFIDENTIAL

Tester Butch Young Witnessed by: H. Frauli

ORIGINAL

DEAN'S TESTERS INC.

OCT 7

P. O. BOX 1182
LIBERAL, Ks. 67901

PHONE
318 / 824-7340

SEC. 16
TWP. 35S
RGE. 33W

Midwestern Exploration Co.
OPERATOR

Swalar #1-16
WELL NAME & NO.

2
TEST #

6188' - 6226'
TEST INTERVAL

COUNTY Seward

STATE Kansas

TICKET NO. 3246

CONFIDENTIAL

Formation Morrow Type Test Conventional Date August 13, 1991
Anchor Length and Size 38' X 4 1/2" OD-Perf. Total Depth 6226'
Packer Depths 6183' & 6188' Below Straddle Choke Size Bottom 5/8" Surface 1/4"
Equipment Run 2 Packers, Jars, Sample Chamber, Safty joint, Circ. sub.

Lengths: Tool 71' D.P. 5570' ID 3.8" Wt. P. _____ ID _____ D.C. 611' ID 2.25"
Mud Type Chemical Vls. 52 Wt. 9.3 Wtr. Loss 8.8 Cl. 1750 ppm

Recorders:
Depth 6212' Make Kuster Cap. 6400 Ser. No. 13373 Inside
Depth 6221' Make Kuster Cap. 6450 Ser. No. 6064 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:
Tool on Bottom @ 5:15 P.M. Initial Hydrostatic 3035 psi
Initial Flow 30 Min. IFP 58 psi to 58 psi
Initial Shut-In 60 Min. ISIP 783 psi
Final Flow 60 Min. FFP 51 psi to 51 psi
Final Shut-In 119 Min. FSIP 1855 psi
Tool off Bottom @ 9:45 P.M. Final Hydrostatic 3035 psi Temp. 138

Blow: Weak increasing to fair on I.F.P., Strong on F.F.P.

Recovery: 780' Gas in drill pipe.
30' Slightly Gas Cut Mud.

Gas Flow:

Sampler Data:
Pressure 16 PSI
Gas 0.03 cu. ft.
Total Fluid 1900 cc
Oil _____ cc
Water _____ cc
Mud 1900 1900 PPM Cl. cc
Oil Gravity _____ @ _____ °F.
Gas/Oil Ratio _____

Remarks:

RELEASED
DEC 0 8 1992
FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION
DEC 0 5 1991
CONSERVATION DIVISION
Wichita, Kansas

Tester Dean Blagrave Witnessed by: H. Frauli

ORIGINAL

DISTRICT Liberal Ks

OCT 7

DATE 8-3-91

TO: HALLIBURTON SERVICES

YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO:

Midwestern Exploration (CUSTOMER)

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1-16 LEASE SINALAP SEC. 16 TWP. 35S RANGE 33W

FIELD COUNTY Seward STATE Ks OWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

Table with columns: FORMATION NAME, TYPE, THICKNESS, FROM, TO, PACKER, TYPE, SET AT, TOTAL DEPTH, MUD WEIGHT, BORE HOLE, INITIAL PROD, OIL, BPD, H2O, BPD, GAS, MCF, PRESENT PROD, OIL, BPD, H2O, BPD, GAS, MCF. Includes rows for CASING, LINER, TUBING, OPEN HOLE, and PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Crat surface casing w/565 SKS Prem Plus Lightweight w/2%cc + 1/4 #/SK flocc
150 SKS Prem Plus w/2%cc + 1/4 #/SK flocc
Displace 5-wiper top plug w/water

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

THIS CONTRACT IS ENTERED INTO BEFORE WORK IS COMMENCED. Halliburton's liability is limited to the replacement of such products, supplies, and materials... RECEIVED STATE CORPORATION COMMISSION DEC 0 5 1991 DEC 0 8 1992

DEC 0 5 1991

DEC 0 8 1992

FROM CONFIDENTIAL

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

TIME A.M. P.M.

CUSTOMER

JOB LOG

WELL NO. 1-16 LEASE SUNLARK TICKET NO. 142137
 CUSTOMER Midwestern Exploration PAGE NO. 1 1000
 JOB TYPE Cmt ~~for~~ surface csg. DATE 8-3-91

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
8-3	1900							Called out float equip. requested @ 213
	2015							On location. Deliver float equipment.
	2100							Rig making bit trip
	2217							Back to drg
8-4	0100							T.D. 12 1/4 hole C+CH
								T.O.O.H. to run csg.
	0310							Start csg.
	0400							Csg in. Hook up to cir w/ rig pump
	0408							Cir established
	0418							Shut down rig pump / HK up to cmt lvs
	1	0421	7.5	211		✓	150	Start lead cement @ 12.2 ppg
2	0449	7.0	35.3		✓	100	Start tail cement @ 14.8 ppg	
3	0454							Cement in. Shut down pumps
	0							Drop 5/wiper top plug.
4	0455	5.0	78		✓	100	Start water disp.	
5	0511	2.5	23		✓	250/325	Slow rate / low on water	
6	0520					950	Land plug	
7	0521					0	Release press / float holding	
								Job completed
								*Cmt cir. to surface

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STATE CORPORATION COMMISSION

DEC 05 1991

CONSERVATION DIVISION
Wichita, Kansas

RELEASED

DEC 08 1992

FROM CONFIDENTIAL

Thanks for calling Halliburton Services!
Bill + crew



ORIGINAL
HALLIBURTON SERVICES
A Halliburton Company

OCT 7

INVOICE NO.	DATE
142330	08/16/19

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
SEWALL		SEWALL		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
SAGE #7		SAGE #7		PLUG TO ABANDON		08/16/19
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER		SHIPPED VIA	FILE
5 2375	HYMMEL				COMPANY TRUCK	206

WESTERN EXPLORATION
PO BOX 1884
LIBERAL, KS 67905-1884

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE		5 MI	2.60	13.00
			1 UNT		
009-019	PLUGGING BK BOOT CEMENT OR MUD	2000	FT	1,125.00	1,125.00
			1 UNT		
504-043	PREMIUM CEMENT	135	SK	6.85	924.75
506-105	POZMIX-A	90	SK	4.32	388.80
506-121	HALLIBURTON-GEL 2X	4	SK	.00	N/C
507-277	HALLIBURTON-GEL PENTACITE	8	SK	14.75	118.00
500-207	BULK SERVICE CHARGE	241	CFT	1.15	277.15
500-306	MILEAGE CMTS MAT DEL & RETURN	348.687	TMI	.80	278.95
INVOICE SUBTOTAL					3,125.65
DISCOUNT - (BIB)					625.13
INVOICE BID AMOUNT					2,500.52
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$2,500.52

RELEASED
DEC 08 1992

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION
DEC 05 1991
CONSERVATION DIVISION
Wichita Kansas

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.