

ORIGINAL

CONFIDENTIAL RELEASED

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- 175-21,147-0000 DEC 13 1991

County SEWARD ✓
APP. NE NE NE SW Sec. 7 Twp. 31S Rge. 31 X West

Operator: License # 5263

Name: MIDWESTERN EXPLORATION CO.

Address P.O. BOX 1884

City/State/Zip LIBERAL, KS 67905-1884

Purchaser: N/A

Operator Contact Person: HAROLD K. FRAULI

Phone (316) 624-3534

Contractor: Name: H-30 DRILLING, INC.

License: 5107

Wellsite Geologist: _____

Designate Type of Completion

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

If OMMO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

- Mud Rotary Air Rotary Cable

8/18/90 8/26/90 N/A

Spud Date Date Reached TD Completion Date

2492 ✓ Ft. North from Southeast Corner of Section

2811 ✓ Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

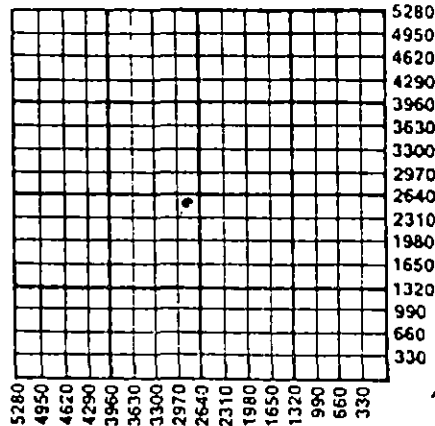
Lease Name SCHMIDT ✓ Well # 1-7

Field Name THIRTY-ONE

Producing Formation N/A

Elevation: Ground 2829 KB 2840

Total Depth 5800 PBDT _____



Amount of Surface Pipe Set and Cemented at 1735 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.

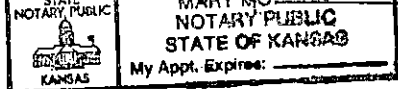
Signature Harold K. Frauli

Title AGENT Date 10/29/90

Subscribed and sworn to before me this 29th day of October 19 90.

Notary Public Mary Morgan

Date Commission Expires August 3, 1992



K.C.C. OFFICE USE ONLY

Letter of Confidentiality Attached

Wireline Log Received

Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA

KGS Plug Other (Specify)

P1

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SIDE TWO

Operator Name MIDWESTERN EXPLORATION CO. Lease Name SCHMIDT Well # 1-7

Sec. 7 Twp. 31S Rge. 31 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Formation Description <input type="checkbox"/> Log <input checked="" type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr><td>TORONTO</td><td>4212</td><td></td></tr> <tr><td>LANSING</td><td>4306</td><td></td></tr> <tr><td>MARMATON</td><td>4909</td><td></td></tr> <tr><td>CHEROKEE</td><td>5070</td><td></td></tr> <tr><td>MORROW</td><td>5376</td><td></td></tr> <tr><td>CHESTER</td><td>5431</td><td></td></tr> <tr><td>ST. GEN</td><td>5606</td><td></td></tr> <tr><td>ST. LOUIS</td><td>5687</td><td></td></tr> </tbody> </table>	Name	Top	Bottom	TORONTO	4212		LANSING	4306		MARMATON	4909		CHEROKEE	5070		MORROW	5376		CHESTER	5431		ST. GEN	5606		ST. LOUIS	5687	
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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 (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																												

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
<u>SURFACE</u>	<u>12 1/4"</u>	<u>8 5/8"</u>	<u>24#</u>	<u>1735'</u>	<u>LITE</u>	<u>520</u>	<u>6% GEL, 2%CC, #FLO</u>
					<u>CLASS C</u>	<u>150</u>	<u>2%CC, #FLOSEAL</u>

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
		Amount	Depth
	<u>N/A</u>		

TUBING RECORD <u>N/A</u>	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First Production <u>N/A</u>	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval _____

CEMENTING SERVICE REPORT

ORIGINAL **DS**
DOWELL SCHUMBERGER INCORPORATED

TREATMENT NUMBER 03-12-2955	DATE 08-19-90
STAGE 271	DS DISTRICT Ulysses, KS (03.12)

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. **SCHMIDT #1-17**

LOCATION (LEGAL) **Sec 17-31S-31W**

FIELD-POOL

FORMATION

COUNTY/PARISH **SEWARD**

STATE **KANSAS**

API. NO.

NAME **MIDWESTERN**

AND

ADDRESS

ZIP CODE

RIG NAME: **H30 - Drilling**

WELL DATA: **12 1/4** BOTTOM **8 5/8** TOP

BIT SIZE **12 1/4** CSG/Liner Size **8 5/8**

TOTAL DEPTH **1740** WEIGHT **24**

ROT CABLE FOOTAGE **1740**

MUD TYPE GRADE

BHST **110** BHCT **90** THREAD **8.0**

MUD DENSITY **10** LESS FOOTAGE SHOE JOINT(S) **43.59**

MUD VISC. **25** Disp. Capacity **108.1**

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

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Float	TYPE	Office Auto Fill	TYPE	
	DEPTH	1696	DEPTH	
Shoe	TYPE	Texas Guide Shoe	TYPE	
	DEPTH	1740	DEPTH	

SPECIAL INSTRUCTIONS

6 Cement 8 5/8 surface casing to a depth of ± 1740. Run Texas Guide Shoe, Flapper, 3 Centralizers for Hardware

Head & Plugs TBG D.P.

Double WEIGHT GRADE

Single GRADE

Swage THREAD

Knockoff NEW USED

BOT W DEPTH

SQUEEZE JOB

TOOL TYPE DEPTH

TAIL PIPE: SIZE DEPTH

TUBING VOLUME Bbls

CASING VOL. BELOW TOOL Bbls

TOTAL Bbls

ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)

PRESSURE LIMIT **2000** PSI BUMP PLUG TO **500** over PSI

ROTATE **-** RPM RECIPROCATATE **-** FT No. of Centralizers **3**

JOB SCHEDULED FOR TIME: **11:00** DATE: **08-19-90** ARRIVE ON LOCATION TIME: **17:00** DATE: **08-19-90**

LEFT LOCATION TIME: DATE:

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								
14:42	-	2270	0	0	-	H ₂ O	8.34	Pressure Test Lines
14:44	-	40	10	0	5.71	H ₂ O	8.34	Pump water AHEAD
14:47	-	120	196	10	4.70	CHT	12.2	START Pumping Lead Slurry
15:32	-	80	286	206	2.93	CHT	14.8	START Pumping Tail Slurry
15:45	-	0	234	234	0.1	-	-	SHUTDOWN - Drop Top Plug
15:50	-	30	98	234	5.01	H ₂ O	8.34	START Pumping Displacement
16:02	-	400	10.1	332.6	2.93	H ₂ O	8.34	Lower Pump Rate
16:08	-	780	-	342.6	-	-	-	Bump Top Plug
16:09	-	0	-	-	-	-	-	Bleed off Pressure - Float Holding

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED		
			BBLs	DENSITY	BBLs	DENSITY	
1.	520	2.1	(35/cu) P ₀₂ /c + 6% D20 + 2% 521	194	12.2		
2.							
3.	150	1.32	CLASS C + 2% S	35.3	14.8		
4.							
5.							
6.							

NOV 2 1990

BREAKDOWN FLUID TYPE HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **108.1** Bbls

Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE

PERFORATIONS TO TO CUSTOMER REPRESENTATIVE

DS SUPERVISOR **James Wilkins**

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER

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OILFIELD SERVICES
 INDUSTRIAL SERVICES

DSI SERVICE ORDER
 RECEIPT AND INVOICE NO.
03-12-2955

DSI SERVICE LOCATION NAME AND NUMBER
Ulysses, KS (03-12)

CUSTOMER NUMBER _____ CUSTOMER P.O. NUMBER **RELEASED** TYPE SERVICE CODE **201** BUSINESS CODES _____

CUSTOMER'S NAME **MIDWESTERN** ADDRESS _____ CITY, STATE AND ZIP CODE _____

WORKOVER W
 NEW WELL N
 OTHER API OR IC NUMBER _____

IMPORTANT
 SEE OTHER SIDE FOR TERMS & CONDITIONS
 ARRIVE LOCATION **08** MO. **19** DAY **90** YR. **11:30** TIME

SERVICE ORDER RECEIPT
 I certify that the materials and services listed were authorized and received and all services performed in a workmanlike manner and that I have the authority to accept and execute this document.

JOB COMPLETION MO. **08** DAY **19** YR. **90** TIME _____

DSI will furnish and Customer shall purchase materials and services required in the performance of the following SERVICE INSTRUCTIONS or DSI INDUSTRIAL SERVICE CONTRACT NO. _____ in accordance with the terms and conditions as printed on the reverse side of this form.

To Cement 8 5/8 Production Casing to A depth of ± 1732'. Run Texas Pattern Guide Shoe, Auto Fill Collar, and 3 Centralizers

STATE **KANSAS** CODE _____ COUNTY / PARISH **SEWARD** CODE _____ CITY _____

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE
Harry S. Benedick

WELL NAME AND NUMBER / JOB SITE **SCHMIDT #1-17** LOCATION AND POOL / PLANT ADDRESS **Sec 17- 31S- 31W**

SHIPPED VIA **DS**

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
048213-000	Pump CHARGE (LAND)	8hrs	1	925. ⁰⁰	925. ⁰⁰
049102-000	Transportation (DELIVERY CHARGE)	Ton.Mile	1683	0.80	1346. ⁴⁰
049100-000	SERVICE CHARGE (LAND)	CFT	739	1.08	798. ¹²
059200-002	Mileage CHARGE	Mile	53	2.40	127. ²⁰
059697-000	PACR (Design/Monitor)	Job	1	110. ⁰⁰	110. ⁰⁰
056704-085	8 5/8" Top Rubber Plug	EACH	1	140. ⁰⁰	140. ⁰⁰
053003-085	OFFICE Auto Filler Flapper	EACH	1	300. ⁰⁰	300. ⁰⁰
050007-085	Texas Pattern Guide Shoe	EACH	1	200. ⁰⁰	200. ⁰⁰
056011-085	8 5/8 Centralizers	EACH	3	68. ⁰⁰	204. ⁰⁰
040003-000	Class "C" Cement	CFT	488	7.30	3562. ⁴⁰
045008-000	LiteBz 3 (LADUE)	CFT	182	2.30	418. ⁶⁰
045014-050	D-20 (Bentonite Extender)	lb	2714	0.13	352. ⁸²
067005-100	S1 (Calcium Chloride)	lb	1187	0.32	379. ⁸⁴
044003-025	D-29 (Cellophane Flakes)	lb	280	1.37	383. ⁶⁰

RECEIPT

SUB TOTAL **Field Estimate \$9347.98**

LICENSE/REIMBURSEMENT FEE _____

REMARKS: **Thanks For USING DS** STATE _____ COUNTY _____ CITY _____ SIGNATURE OF DSI REPRESENTATIVE *James P. Walker* % TAX ON \$ _____ TOTAL \$ _____

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GENERAL TERMS AND CONDITIONS

1. AMENDMENTS. Any modification of this document by the Customer, and all additional or different terms included in the Customer's purchase order or any other document responding to this contract, are hereby objected to. BY REQUESTING THE GOODS AND SERVICES SET FORTH HEREIN, BUYER AGREES TO ALL THE TERMS AND CONDITIONS CONTAINED ON BOTH SIDES OF THIS DOCUMENT.

2. TERMS. Cash in advance unless DSI has approved credit prior to the sale. Credit terms of sale for approved accounts are total invoice amount due at DSI's office, Houston, Texas, on or before the 30th day from the date of invoice. Past due accounts are to pay interest on the balance past due at the rate of 1½% per month or the maximum allowable by the applicable state laws if such laws limit interest to a lesser amount. In the event it is necessary to employ an agency and/or attorney to effect collection of said account, Customer agrees to pay all fees directly or indirectly incurred for such collection.

3. PRICES. The products and services to be supplied hereunder shall be priced in accordance with DSI's current Price Schedule. As provided in DSI's Price Schedule, special jobs, under unusual conditions, will be subject to special price quotations to reflect increased or reduced costs.

4. TAXES. Any tax based on or measured by the charge for sale or rental of products or rendering of service shall be added to the price stated in DSI's Price Schedule.

5. INDEPENDENT CONTRACTOR. DSI is and shall be an independent contractor with respect to the performance of this contract, and neither DSI nor anyone employed by DSI shall be the agent, representative, employee or servant of Customer in the performance of this contract or any part hereof.

6. FORCE MAJEURE. Any delays or failure by DSI in the performance of this contract shall be excused if and to the extent caused by war, fire, flood, strike, labor trouble, accident, riot, acts of God, or any contingencies beyond the reasonable control of DSI.

7. DISPOSAL. Disposal of the chemicals used in the performance of this contract is the responsibility of Customer. Customer agrees the chemicals will be disposed of in accordance with all applicable Federal, State and local laws and regulations.

12. SEVERABILITY. It is understood and agreed by the parties hereto that any part, term, or provision of this Contract prohibited by law shall be deemed invalid to the extent of such prohibition and shall be deemed modified to the extent necessary to conform to such rule of law.

8. PRODUCT SALES AND RENTALS - WARRANTY. DSI warrants only that products (including tools, supplies and materials) furnished shall conform to the quality and specification represented and that DSI can convey good title; DSI MAKES NO WARRANTY OF MERCHANTABILITY, OR THAT SAID PRODUCTS SHALL BE FIT FOR ANY PARTICULAR PURPOSE, NOR IS THERE ANY OTHER WARRANTY EXPRESSED OR IMPLIED EXCEPT AS EXPRESSLY STATED HEREIN. DSI's liability and Customer's exclusive remedy for any cause of action arising out of a product sale or rental pursuant hereto is expressly limited at DSI's option to (a) replacement or such product upon its return to DSI or (b) allowance to Customer of credit for the cost of such product.

9. SERVICE WARRANTY. In interpreting information and making recommendations, either written or oral, as to type or amount of material or service to be furnished, or manner of performance, or in predicting results to be obtained therefrom, DSI will give Customer the benefit of its best judgment based on its experience in the field. Nevertheless, all such recommendations or predictions are opinions only; and, in view of the impracticability of obtaining first-hand knowledge of the many variable conditions and/or the necessity of relying on facts and supporting services furnished by others, NO WARRANTY IS GIVEN CONCERNING THE EFFECTIVENESS OF THE MATERIALS USED, RECOMMENDATIONS GIVEN, OR THE SERVICES RENDERED.

10. LIABILITY AND INDEMNITY. Customer agrees to be responsible for and to defend, indemnify and save harmless DSI, its officers, agents and employees, from any and all claims, loss, damage or expense by reason of accident, injuries, damages or hurt to any person or property, including property of DSI or Customer, that may occur in connection with or related to the performance of this contract and which is caused in whole or in part by the negligent act or omission of Customer, its agents, servants or employees and whether or not caused in part by the negligent act or omission of DSI. In no event shall DSI be liable for any special, incidental, indirect, punitive, or consequential damage, including, but not limited to, loss of use or loss of profit, for breach of contract, negligence (including DSI's sole negligence) or any other cause of action.

11. DSI. The term "DSI" as used herein is an abbreviation of Dowell Schlumberger Incorporated and where used throughout this agreement, shall be construed to mean Dowell Schlumberger Incorporated, a Delaware corporation.

SPECIAL TERMS AND CONDITIONS

In addition to the foregoing General Terms and Conditions which are applicable to all services and products furnished by DSI, the following Special Terms and Conditions are applicable to Oil Field Services and Mining Services. In the event of any conflict, inconsistency, or incongruity between the General Terms and Conditions and the Special Terms and Conditions, the Special Terms and Conditions shall govern and control.

13. WELL. The term "well" as used herein shall also be construed to include and mean a "mine" or other property being serviced where the work to be performed involves DSI mining services.

14. CUSTOMER'S RESPONSIBILITY & INDEMNITIES. The parties agree that Customer has complete custody and control of the well, the conditions created in the well, the drilling equipment, well premises and access routes from highways to well locations. Customer will have the well in readiness for the service and, following service, will return the well to production. The parties further agree that unless caused by DSI's willful misconduct or failure to exercise good faith, Customer shall be fully responsible for and defend, indemnify and save harmless DSI, its officers, agents and employees against:

(i) Liability for damage to property of Customer (and well owner if different from Customer), this provision applying but not limited to subsurface damage and surface damage arising from subsurface damage including any liability based in whole or in part on the negligence of DSI.

(ii) Liability for reservoir loss or damage, or any property damage (including but not limited to damages caused by pollution or contamination), or personal injuries resulting directly or indirectly from subsurface pressure, well blowout or cratering, or losing control of the well including any liability based in whole or in part on the negligence of DSI.

(iii) Liability for any damages whatever resulting directly or indirectly from a subsurface trespass, pollution or contamination arising out of any servicing operation performed by DSI or Customer including any liability based in whole or in part on the negligence of DSI.

(iv) Liability for injury to persons (including death) or damage to property, other than employees and property of DSI, growing out of or in any way, connected with the use of materials in the well which are radioactive, poison, toxic or otherwise hazardous including any liability based in whole or in part on the negligence of DSI.

(v) Liability for damages to property of customer or third parties or injuries to persons caused or alleged to have been caused by contamination or pollution from the application or use of products designed to control dust, wind erosion, product loss, sealing of ponds, reservoirs, irrigation canals, or sanitary landfills including any liability based in whole or in part on the negligence of DSI.

(vi) Liability for injury to persons (including death) or damage to property growing out of or in any way connected to the use of various equipment provided by DSI at no cost for the sole convenience of and use by the Buyer including any liability based in whole or in part on the negligence of DSI.

(vii) Liability for damage to property of Customer (and well owner if different from Customer) resulting, directly or indirectly, from tools or instruments of DSI being lost in a well, including any liability based in whole or in part on the negligence of DSI.

15. DOWN - HOLE TOOLS AND INSTRUMENTS. If tools or instruments of DSI are lost in a well, Customer agrees to make a reasonable effort at Customer's risk and expense to recover same; and, if unable to recover, to pay DSI for same unless such loss or damage was caused solely by DSI's negligence.

16. OFFSHORE & MARINE OPERATIONS. For offshore marine operations Customer agrees to insure against loss and assumes full responsibility for damage to equipment furnished by DSI from time of delivery to Customer at landing until returned to landing when transported on craft, or located on platforms not owned or leased by DSI.

Customer shall furnish transportation for crew changes at customers expense.