

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

Operator: License # 5144

Name: Mull Drilling Co., Inc.

Address P.O. Box 2758

City/State/Zip Wichita, Kansas 67201

Purchaser: NCRA

Operator Contact Person: Scott Hampel

Phone (316) 264-6366

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Roger Martin

Designate Type of Completion
 New Well Re-Entry Workover

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

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

09-05-95 09-13-95 09-14-95

Spud Date _____ Date Reached TD _____ Completion Date 09-28-95

API NO. 15- 097-21395 0000 ORIGINAL

County Kiowa County, Kansas

NE - NE - NW - Sec. 28 Twp. 27 Rge. 20 XX ^E _W

5050' Feet from S/N (circle one) Line of Section

2970' Feet from E/W (circle one) Line of Section

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

Lease Name Zeigler Well # 5

Field Name Fralick West

Producing Formation Mississippi

Elevation: Ground 2299' KB 2308'

Total Depth 4990' PBTB _____

Amount of Surface Pipe Set and Cemented at 335' 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.

Drilling Fluid Management Plan ALT 1 9/4 7-24-96
(Data must be collected from the Reserve Pit)

Chloride content 21,000 ppm Fluid volume 1,780 bbls

Dewatering method used Evaporation/Transferred offsite

Location of fluid disposal if hauled offsite:

(1) Peter H. Beren

Operator Name (2) Oil Producers, Inc.

(1) VH Koehn SWD #12 (1) 3051

Lease Name (2) Palmiter License No. (2) 0861

(1) _____ 28 29S 18W

(2) _____ Quarter Sec. 16 Twp. 25S S Rng. 16W E/W

(1) Kiowa (1) D-5617

County (2) Edwards Docket No. (2) D-20983

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 Scott E. Hampel (Scott E. Hampel)

Title Vice President-Production/Eng. Date 11-9-95

Subscribed and sworn to before me this 9th day of November,
19 95.

Notary Public Tannis L. Tritt (Tannis L. Tritt)

Date Commission Expires March 26, 1999

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution _____ SWD/Rep _____ NGPA
_____ Plug _____ Other
(Specify)
RECEIVED
STATE CORPORATION COMMISSION
NOV 7 9 1995
CONSERVATION DIVISION
WICHITA, KANSAS

TANNIS L. TRITT
Notary Public - State of Kansas
My Appt. Expires 3-26-99

11-13-95

Operator Name Mull-Drilling Company, Inc.

Lease Name Zeigler

Well # 5

Sec. 28 Twp. 27 Rge. 20
 East
 West

County Kiowa County, Kansas

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:

Schlumberger: Array Induction
 Microlog
 Comp Neutron Density

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
T/Anhydrite	1296	+1012
B/Anhydrite	1312	+ 966
Heebner	4099	-1791
Toronto	4119	-1811
Lansing	4249	-1941
KC	4426	-2118
BCK	4647	-2339
Marmaton	4658	-2350
Pawnee	4699	-2391
Ft Scott	4762	-2454
Cherokee	4782	-2474
<input type="checkbox"/> New <input checked="" type="checkbox"/> Used Miss-Sperg LM4852		-2544

CASING RECORD New Used Miss-Sperg LM4852
 Report all strings set-conductor, surface, intermediate, production, etc. (Continued at Bottom *)

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	12-1/4"	8-5/8"	28#	335'	lite/common	100/100	3%cc 2%gel
Production	7-7/8"	5-1/2"	14#	4982'	ASC	100	5% gilsonite

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4861-4869'	500 gal 15% MCA	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	4890'	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj.	Producing Method
9-28-95	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas TSTM	Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	37			22		36.4

Disposition of Gas: **METHOD OF COMPLETION** **Production Interval**
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 4861'-
 (If vented, submit ACO-18.) Other (Specify) _____ 4869'

* Miss-Sperg Dolo	4863	-2555
Warsaw	4891	-2583
Osage	4964	-2656
LTD	4990	-2682

ORIGINAL

MULL DRILLING CO., INC.: ZEIGLER # 5
5050' FSL & 2970' FEL, SECTION: 28-27S-20W, KIOWA COUNTY, KS.

DST # 1 4832' to 4878' MISSISSIPPIAN - SPERGEN

Times: 30 - 60 - 60 - 90 minutes

IF: Strong blow, off bottom of bucket in 2 minutes.

ISI: Good blow back, 4 inches in 15 minutes, decreased to 1 inch in 60 minutes.

FF: Strong blow, off bottom of bucket immediately.

FSI: Good blow back, GAS TO SURFACE WITHIN 1 MINUTE.

REC: 430 FT (6.11 bbls) CLEAN GASSY OIL
(38 gravity @ 70 degrees F.)

125 FT (1.78 bbls) SALT WATER
Rw: 0.24 ohms @ 80 degrees F.
(Rw by Schlumberger)

555 FT (7.89 bbls) TOTAL FLUID

CORRECTED Rw of DST WTR: 0.157 ohms @ 126 degrees F.

PRESSURES AND TEMPERATURE FROM ELECTRONIC RECORDER:

ISIP: 524 IFP: 85.3 - 163 IHP: 2458

FSIP: 524 FFP: 176.0 - 275 FHP: 2342

TEMPERATURE: 126 degrees F.

PRESSURES AND TEMPERATURE FROM MECHANICAL RECORDER:

ISIP: 529 IFP: 104 - 150 IHP: 2468

FSIP: 500 FFP: 290 - 330 FHP: 2379

TEMPERATURE: 136 degrees F.

ALLIED CEMENTING CO., INC. 1363

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT Med Lodge, KS.

DATE <u>9-5-95</u>	SEC. <u>28</u>	TWP. <u>27</u>	RANGE <u>20</u>	CALLED OUT <u>2:00 P.M.</u>	ON LOCATION <u>4:30 P.M.</u>	JOB START <u>11:45 P.M.</u>	JOB FINISH <u>11:45 P.M.</u>
LEASE <u>Zeigler</u>	WELL # <u>5</u>	LOCATION <u>Mullinville, 5N-2W-1N</u>			COUNTY <u>KLINGMAN</u>	STATE <u>KS.</u>	

OLD OR (NEW) (Circle one)

CONTRACTOR Duke Drilling #4

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 344'

CASING SIZE 8 5/8 x 24 DEPTH 335.97

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 33.97

CEMENT LEFT IN CSG.

PERFS.

OWNER Mull Drilling

CEMENT

AMOUNT ORDERED 100 SKS 65/35/6% GEL
3% CaCl₂ + 1/4# Flo-Seal
100 SKS CLASS A 3% CaCl₂ 2% GEL

COMMON @

POZMIX @

GEL @

CHLORIDE @

EQUIPMENT

PUMP TRUCK CEMENTER Harry D. HELPER Carl B.

766

BULK TRUCK DRIVER John K.

242

BULK TRUCK DRIVER

RECEIVED
STATE CORPORATION COMMISSION
NOV 13 1995

HANDLING @

MILEAGE @

TOTAL @

REMARKS:

Mix + Pump 100 SKS 65/35/6% GEL
3% CaCl₂ + 1/4# Flo-Seal
100 SKS CLASS A 3% CaCl₂ 2% GEL
Cement In Release Plug Displace
w/ 19 Bbls. Bump Plug Shut In
Cement Cure to Surface

DEPTH OF JOB 335

PUMP TRUCK CHARGE @

EXTRA FOOTAGE @

MILEAGE @

PLUG + Rubber @

TOTAL @

CHARGE TO: Mull Drilling

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

1- Baffle Gate @

1- Centrifizer @

1- Basket @

TOTAL @



CEMENTING LOG

STAGE NO.

ORIGINAL

Date 9-5-95 District med. lodge Ticket No. 1363
 Company mull Drig. Rig Duke #4
 Lease 2 eia ler Well No. 5
 County Kiowa State Ks.
 Location mullinville - sn - 2w - 1n Field 28-27-20

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 8 5/8 Type T Weight 28 Collar _____

LEAD: Pump Time _____ hrs. Type 65/35/6% Gel
3% CaCl2 + 1/4# Flo-Seal Excess _____
 Amt. 100 Skys Yield 1.97 ft³/sk Density 12.4 PPG

TAIL: Pump Time _____ hrs. Type CLASS A
3% CaCl2 + 2% Gel Excess _____
 Amt. 100 Skys Yield 1.34 ft³/sk Density 15.2 PPG

WATER: Lead 10.9 gals/sk Tail 6.5 gals/sk Total 31 Bbls.

Casing Depths: Top _____ Bottom _____

Pump Trucks Used 266 Carl B.
 Bulk Equip. 242, John K.

Drill Pipe: Size 4 1/2 Weight 16.60 Collars X-hole
 Open Hole: Size 12 1/4 T.D. 344 ft. P.B. to _____ ft.

Float Equip: Manufacturer Baker

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.624 Lin. ft./Bbl. 16.02
 Open Holes: Bbls/Lin. ft. 1.458 Lin. ft./Bbl. 6.8599
 Drill Pipe: Bbls/Lin. ft. 0.112 Lin. ft./Bbl. 20.32
 Annulus: Bbls/Lin. ft. 0.735 Lin. ft./Bbl. 13.6037
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Shoe: Type _____ Depth _____
 Float: Type Baffle Depth _____
 Centralizers: Quantity 1 Plugs Top Rubber Btm. _____
 Stage Collars _____
 Special Equip. Basket
 Disp. Fluid Type Fresh H₂O Amt. 19 Bbls. Weight 8.34 PPG
 Mud Type Chemical Weight 9.2 PPG

Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE _____

CEMENTER Larry J. Drilling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
11:25	150		35	7	.5	mix 4 Pump 100 SKS 65/35/6% GEL 3% CaCl2 w/ 1/4# Flo-Seal
11:32	150		24	5	.5	LEAD IN. START TAIL w/ 100 SKS CLASS A 3% CaCl2 w/ 2% Gel
11:38						Cement In. Stop Pumps Release Plug
	150		15		4	Pump Displace Plug w/ Fresh H ₂ O
11:45	200 350		17 19		4 2	Slight PSI Increase Decrease Rate Pump Plug Shut In.

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