

ORIGINAL

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE
31547

Operator: License # _____

Name: MidAmerica Pipeline Co.Address P O Box 21628City/State/Zip Tulsa OK 74121-1628

Purchaser: _____

Operator Contact Person: Rick WooldridgePhone (918) 599-5053Contractor: Name: H. L. McLean DrillingLicense: 09322

Wellsite Geologist: _____

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover☐ Oil ☐ SMD ☐ SLOW ☐ Temp. Abd.☐ Gas ☐ ENHR ☐ SIGW☐ Dry ☒ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Reentry: Old Well Info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

☐ Deepening ☐ Re-perf. ☐ Conv. to Inj/SMD☐ Plug Back ☐ PSTD☐ Commingled ☐ Docket No. _____☐ Dual Completion ☐ Docket No. _____☐ Other (SMD or Inj?) ☐ Docket No. _____8-14-97 8-15-97 8-16-97

Spud Date _____ Date Reached TD _____ Completion Date _____

API NO. 15- 175-216450000County Seward- NW - SE - NW Sec 25 Twp. 33 Rge. 32 XX ^E _W1349 Feet from S (circle one) Line of Section1590 Feet from E (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)Lease Name _____ Well # Rectifier #1Field Name Liberal Station

Producing Formation _____

Elevation: Ground _____ KB _____

Total Depth 350' PSTD _____Amount of Surface Pipe Set and Cemented at 200 FeetMultiple 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 3 12-18-97
(Data must be collected from the Reserve Pit)Chloride content _____ ppm Fluid volume N/A bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

____ 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, 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 Max R. MollTitle Operations Manager Date 12-7-97Subscribed and sworn to before me this 8 day of Dec, 19 97.Notary Public Doug HaightDate Commission Expires 8-23-2001

K.C.C. OFFICE USE ONLY

F ☐ Letter of Confidentiality Attached
C ☐ Wireline Log Received
C ☐ Geologist Report Received

Distribution

☒ KCC ☐ SMD/Rep ☐ NGPA
☐ KGS ☐ Plug ☐ Other
(Specify)

SIDE TWO

Operator Name Mid America Pipeline Co.Lease Name Liberia Station Well # Rectifier #1Sec. 25 Twp. 33 Rge. 32☐ EastCounty 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 ☐ Yes ☐ No
(Attach Additional Sheets.)Samples Sent to Geological Survey ☐ Yes ☐ NoCores Taken ☐ Yes ☐ NoElectric Log Run ☐ Yes ☐ No
(Submit Copy.)

List All E.Logs Run:

☐ Log Formation (Top), Depth and Datums ☐ Sample

Name

Top

Datum

SEE ATTACHED

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
Water Seal	14"	8' PVC Sch 40		SEE	ATTACHED		

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		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, SMD or Inj.		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:

METHOD OF COMPLETION

Production Interval

☐ Vented ☐ Sold ☐ Used on Lease
(If vented, submit ACO-18.)

☐ Open Hole ☐ Perf. ☐ Duzyly Comp. ☐ Commingled

☐ Other (Specify) _____

EFFECTIVE DATE: 7-13-97

DISTRICT # 1

SGA? ☒ Yes... ☐ NoState of Kansas
CATHODIC PROTECTION BOREHOLE INTENT DRAFT

FORM MUST BE SIGNED

ALL BLANKS MUST BE FILLED IN

Must be approved by the K.C.C. sixty (60) days prior to commencing well.

Expected Spud (Starting) Date 7-15-97

OPERATOR: License # 31547 month day year

Name: Mid America Pipeline Company

Address: P.O. Box 21628

City/State/Zip: Tulsa, OK 74121-1628

Contact Person: Rick Wooldridge

Phone: (918) 599-4053

CONTRACTOR: License #: 09322

Name: H.L. McLean Drilling

Type Drilling Equipment: ☒ Mud Rotary ☐ Cable
☐ Air Rotary ☐ Other

CONSTRUCTION FEATURES

Length of Cathodic Surface (Non-Metallic) Casing 200'

Planned to be set: _____ ft.

Length of Conductor pipe (If any?): NONE _____ ft.

Size of the borehole (I.D.): 14" _____ inches

Cathodic surface casing size: 8" _____ inches

Cathodic surface casing centralizers set at depths of: 20'; 60'; 100'; 140'; 180'; _____

Cathodic surface casing will terminate at:

☒ Above surface ☐ Surface Vault ☐ Below Surface VaultPitless casing adaptor will be used: Yes ☒ No _____ at Depth _____ ft.

Anode installation depths are: 340'; 330'; 320'; 310';

300'; 290'; 280'; 270'; 260'; 250'; 240'; 230'; _____

Spot (Location) 0/0/0
APP NW SE NW Sec 25, Twp 33 S, Rg 32 ☒ East
1349' feet from South ☒ North line of Section
1590' feet from East ☒ West line of Section
(Circle directions from nearest outside corner boundaries)
IS SECTION ☒ REGULAR ☐ IRREGULAR?
(Spot well on the Section Plat on Reverse Side)
County: Seward

Lease Name: N/A Well #: Rectifier #1

Facility Name: Liberal Station

Ground Surface Elevation: _____ MSL

Cathodic Borehole Total Depth 350' _____ ft.

Depth to Bedrock 420' _____ ft.

WATER INFORMATION:

Aquifer Penetration: _____ None ☒ Single _____ Multiple

Depth to bottom of fresh water: 200' _____

Depth to bottom of usable water: 420' _____

Water well within one-quarter mile: ☒ yes ☐ noPublic water supply well within one mile: _____ yes ☒ no

Water Source for Drilling Operations:

_____ well _____ farm pond _____ stream ☒ other

Water Well Location: N/A

N/A

DWR Permit #: _____

Standard Dimension Ratio (SDR) is SCH 40

(cathodic surface OD csg. in inches / MWI in inches = SDR)

Annular space between borehole and casing will be grouted

with: ☒ Concrete ☐ Bentonite Cement
☒ Neat cement ☐ Bentonite clay

Anode vent pipe will be set at: 3' _____ ft. above surface

Anode conductor (backfill) material TYPE: Loresco DW-1

Depth to BASE of Backfill installation material: 350' _____

Depth to TOP of Backfill installation material: 150' _____

AFFIDAVIT

The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55-101, et. seq. It is agreed that the following minimum requirements will be met:

1. Notify the appropriate district office prior to spudding of and again before plugging well;
2. A copy of the approved notice of intent to drill shall be posted on each drilling rig;
3. The minimum amount of cathodic surface casing as specified below shall be set by grouting to the top.
4. An agreement between the operator and the district office on plugs and placement is necessary prior to plugging;
5. The appropriate district office will be notified before well is either plugged or casing is grouted in;
6. IN ALL CASES, NOTIFY DISTRICT OFFICE PRIOR TO ANY CEMENTING.

I hereby certify that the statements made herein are true and to the best of my knowledge and belief.

Date: 7-1-97 Signature of Operator or Agent: Judith L. McLean Title: Office mgr.

MAILED

JUL 08 1997

CONSERVATION DIVISION
Wichita, Kansas

FOR KCC USE:

API # 15- 175-216450000

Conductor pipe required NONE feet

Minimum cathodic surface casing required 200' feet (ALT 3)

Approved by: JK 7-8-97

This authorization expires: 1-8-98

(This authorization void if drilling not started within 6 months of effective date.)

Spud date: _____ Agent: _____

REMEMBER TO:

- File Drill Pit Application (form COP-1) with Intent to Install;
- File Completion Form CB-2 within 30 days of spud date;
- Notify appropriate district office 48 hours prior to workover or re-entry;
- Submit plugging report (CB-4) within 30 days after plugging is completed.

Mail to: KCC - Conservation Division, 130 S. Market - Room 207B, Wichita, Kansas 67202-1206.

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 03 1997

CONSERVATION DIVISION
WICHITA, KS

Seward Co.

ORIGINAL

P.O. BOX 1493

J. A. G.

Construction Company
DODGE CITY, KANSAS 67801*Mesa*SUBLETTE, KS
316-675-8310

8-13-97

LIBERAL, KS
316-624-0020

Invoice # 15233

UNLOADING

SLUMP PLACED	<input type="checkbox"/> ESTIMATE <input type="checkbox"/> ACTUAL
LOAD TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO
TESTED BY	
CYLINDERS TAKEN	<input type="checkbox"/> YES <input type="checkbox"/> NO

Drivers are prohibited from delivering concrete except under the truck's own power, and where site conditions permit the safe and proper operation of his equipment. Drivers are not permitted to add water to the mix to exceed the maximum slump nor to go beyond the curb line, except upon the authorization of the customer and his acceptance of risk for any loss or damage. Claims for shortages will not be allowed unless made at time of delivery. Standing time in excess of 60 minutes charged at the prevailing rate.

LEAVE PL
ARRIVE JO
FINISH PO
LEAVE JOE
ARRIVE PL

WATER ADDED AT
CUSTOMER'S REQUEST

BY: *Cale M*
CUSTOMER SIGNATURE

CUSTOMER ID

P.O. NUMBER

GALLONS

ZONE

TIME

7:15AM

DATE

13Aug

SOLD TO
MCCLAINS DRILLING

DELIVER TO
1 MILE EAST 4 MILES
NORTH MT JESUS

DRIVER

Load

PD by check # 4864

QUANTITY THIS LOAD	QUANTITY ORDERED	QUANTITY DELIVERED	PRODUCT CODE	PRODUCT DESCRIPTION	UNIT OF MEASURE
0.00	0.00	0.00	0	5 SACK	yd3
1.00			16	BULK CEMENT	
55.00			3	PER MILE	
TRUCK 12	PLANT	SLUMP	DUE AT JOB	USE OF CONCRETE	
ACCEL	AIR ENTRAIN 100 %	SUPER PLAS.	TWO I.D.S. FOR C.O.D. DELIVERY		

DELIVERY INSTRUCTIONS

SPECIAL INSTRUCTIONS

Seward County
MAPO

DODGE CITY CONCRETE, INC.

CONCRETE PRODUCTS
READY MIXED CONCRETE
DODGE CITY, KANSAS 67801

PHONE 227-3041 DISPATCHER
OR 225-4351 OFFICE

P.O. BOX 1237
1105 E. WYATT EARP BLVD.

DATE 8-11-91

SOLD TO <i>Coleman</i>	ID NUMBER
DELIVER TO <i>Mount Jesus Road - Highland</i>	TAX NUMBER
MAILING ADDRESS	P.O. #
TRUCK NO. <i>22</i>	DRIVER

QUANTITY	MATERIAL	CODE NUMBER	PRICE
	<i>Slurry</i>		
%	<input type="checkbox"/> C.C. <input type="checkbox"/> H.E. <input type="checkbox"/> H.W.		
	<i>9870 Cement</i>		
	<i>546 Col. water</i>		
	<i>CRACK #</i>		
	<i>4863</i>		
		<i>1455</i>	
		<i>1510</i>	
	DELIVERY CHARGE		

EXTRA WATER ADDED _____ GALLONS	WAITING AND/OR UNLOADING TIME
30 MIN. FREE UNLOADING TIME	SUB-TOTAL
WAITING AND / OR UNLOADING TIME _____	SALES TAX
	TOTAL

RECEIPT AND RELEASE

This concrete designed in accordance to A.C.I Standards. Any water added to this design will be at purchaser's risk.

RECEIVED THE ABOVE MATERIAL IN GOOD CONDITION.

SIGN HERE →

KEEP OUT OF REACH OF CHILDREN

CUSTOMER COPY

Seward County
MAPCO

JOB NO. 97063-1
 CLIENT MAPCO
 SUBJECT Replace Deep Well

MESA CORROSION
CONTROL INC.

PAGE 1 OF 4
 DATE 08/15/97
 PREPARED BY: DF

DEEP GROUNDBED DATA

ORIGINAL

Contractor McLean Drilling Unit No. _____
 Well Liberal Station Line _____
 State KS County Seward
 Section 25 Range 32S Twp 33S
 Depth 350' Dia. 8" Casing 200"
 Coke 3800# DW-1 Backfill Cement Vent 1" AV
 Wellhead _____ Cable 3* Halar
 Anodes Anotec 2684 No. Anodes 12

Rectifier 5.9A 16.2V PS -2.47 Shunt 2.8A

New Anode Jct. Box

1.	1.91	7.	.89
2.	1.72	8.	.81
3.	1.65	9.	.68
4.	1.56	10.	.52
5.	1.41	11.	.57
6.	1.12	12.	.68

DEPTH FEET	GEOLOGICAL DRILLING LOG	ELECTRICAL LOG				ANODE NO.	ANODE DEPTH	FINAL PLACEMENT		
		VOLT	AMP	OHM				VOLT	AMP WATER	AMP COKE
5	0-7 Sand [Casing]									
10	7-63 Sandy Clay/Lite Clay									
15										
20										
25										
30										
35										
40										
45										
50										
55										
60	63-85 Sandy Clay									
65										
70										
75										
80										
85	85-150 Sand									
90										
95										
100	Casing									
Total										

REMARKS:

JOB NO. 97063-1

CLIENT

SUBJECT

DEEP GROUND BED DATA

MESA

 CORROSION
CONTROL INC.

ORIGINAL

PAGE 2 OF 4

DATE

PREPARED BY:

Contractor Unit No.

Well Line

State County

Section Range Twp

Depth Dia. Casing

Coke Backfill Vent

Wellhead Cable

Anodes No. Anodes

DEPTH FEET	GEOLOGICAL DRILLING LOG	ELECTRICAL LOG				ANODE NO.	ANODE DEPTH	FINAL PLACEMENT		
		VOLT	AMP	OHM				VOLT	AMP WATER	AMP COKE
105	Casing									
110										
115										
120										
125										
130										
135										
140										
145										
150	150-230 Soft Clay									
155										
160										
165										
170										
175										
180										
185										
190										
195										
200	Casing	16.2	3.2					16.2		
	Total									

REMARKS:

JOB NO. 97063-1

CLIENT

SUBJECT

DEEP GROUND BED DATA

MESA

 CORROSION
CONTROL INC.

ORIGINAL

PAGE 3 OF 4

DATE

PREPARED BY:

Contractor Unit No.

Well Line

State County

Section Range Twp

Depth Dia. Casing

Coke Backfill Vent

Wellhead Cable

Anodes No. Anodes

DEPTH FEET	GEOLOGICAL DRILLING LOG	ELECTRICAL LOG				ANODE NO.	ANODE DEPTH	FINAL PLACEMENT		
		VOLT	AMP	OHM				VOLT	AMP WATER	AMP COKE
205		16.2	2.9					16.2		
210			2.9							
215			3.3							
220			3.0							
225			2.6							
230	230-350 Sand/Small Amounts		2.7							
235	Clay Mixed		2.7			12	235			5.3
240			2.8							
245			2.8			11	245			5.3
250			2.9							
255			3.0			10	255			5.2
260			3.1							
265			3.1			9	265			5.8
270			3.2							
275			3.3			8	275			6.5
280			3.5							
285			3.5			7	285			7.1
290			3.6							
295			3.9			6	295			7.6
300		16.2	3.8					16.2		
Total										

REMARKS:

JOB NO. 97063-1

CLIENT

SUBJECT

DEEP GROUND BED DATA

MESA

 CORROSION
CONTROL INC.

ORIGINAL

PAGE 4 OF 4

DATE

PREPARED BY:

Contractor Unit No.

Well Line

State County

Section Range Twp

Depth Dia. Casing

Coke Backfill Vent

Wellhead Cable

Anodes No. Anodes

DEPTH FEET	GEOLOGICAL DRILLING LOG	ELECTRICAL LOG				ANODE NO.	ANODE DEPTH	FINAL PLACEMENT		
		VOLT	AMP	OHM				VOLT	AMP WATER	AMP COKE
305		16.2	3.9			5	305	16.2		8.4
310			5.0							
315			5.2			4	315			8.5
320			4.6							
325			5.0			3	325			7.8
330			5.0							
335			5.1			2	335			7.7
340			5.4							
345			5.5			1	345			7.7
350		16.2	5.2					16.2		
355										
360										
365										
370										
375										
380										
385										
390										
395										
400										
	Total									

REMARKS: