

EVALUATION REPORT OF A LIQUID PIPELINE CARRIER

Name of Operator: Mobil Pipeline Company	
HQ. Address: Mobil Pipe Line Co. P.O. Box 900 Dallas, TX 75221	Unit Name and Address: Mobil Pipe Line Co. - STATE OF ARKANSAS P.O. Box 618 CORSIANA, Texas 75151
Co. Official (Pres. or VP): J.F. Russell VP Telephone number: 214-658-2213 Fax Number: 214-658-2222	Telephone number: AC 903-654-5328 Fax Number: - AC 903-654-5302
Emergency Telephone: 214-742-3106	Emergency Telephone: SAME
OPINS ID#:	Unit Record ID#: Inspection Record ID#:

Persons Interviewed	Titles	Phone Number
M. H. Adams (mike)	Field DOT manager	(903) 654-5328/5302 (Fax)
Gary J. Sigle	Maintenance-ops Tech	(870) 542-6221
T.D. (Denny) Wedgeworth	Corrosion Technician	(903) 986-2056/7541
Terry Y. Lough	Maintenance-ops Tech	(501) 356-3533

OPS Representative: Michael A. Schwartzkopf **Date:** 20-23 Oct 97

Company System Maps (copies for Region Files)

Comments:

mop Foreman → Glenwood 894 psi
 at Glenwood → Conway 857 psi
 Pump station Conway → Strawberry 892 psi
 Strawberry → Doniphan 928 psi

20" x 0.312" wt API 5L 2-42 Cool Tur Coater

River Crossings: Red River
 Arkansas River
 White River

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HVL PIPELINE TESTING SUMMARY	N/A	Yes	No
1. Does the operator's pipelines transport HVLs? <i>For Arkansas</i>	✓		
2. Have the HVL pipelines been tested in accordance with Subpart E of Part 195?	✓		
Required test completion dates are as follows:			
a. Onshore Interstate Lines in HVL in service prior to 9/8/80 & constructed prior to 1/8/71. 1. 50% by 9/15/83 2. 100% by 9/15/85	✓		
b. Onshore Intrastate Lines in HVL in service prior to 4/23/85 & constructed prior to 10/21/85. 1. 50% by 4/23/88 2. 100% by 4/23/90	✓		
3. Have HVL pipelines not tested by the dates specified in #2 above been converted subject to §195.5?	✓		
4. Have HVL pipelines not tested in accordance with Subpart E of Part 195 had their operating pressures reduced to:	✓		
a. 80% of the 4-hour , documented, test pressure?	✓		
b. 80% of the 4-hour , documented, operating pressure?	✓		
Required pressure reduction dates are as follows:			
a. Onshore interstate Lines constructed before 1/8/71 & in HVL service before 9/8/80, by 9/15/81	✓		
b. Onshore Intrastate Lines constructed before 10/21/85 & in HVL service before 4/23/85, by 4/23/86.	✓		

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PIPELINE INFORMATION

Boundaries of Unit: (Geographical, Pipeline MP, Other)

AR-TX Border at Red River, SW of Foreman, AR
MA 159.8

to

AR-MO Border SW of Doniphan, MO MA 455.8

Counties: Little River, Sevier, Howard, Pike, Montgomery,
Garland, Saline, Perry, Pulaski, Faulkner, White,
Randolph, Independence, Lawrence

Pipelines and Pumping Stations in Unit:

4.

Foreman 3,300 HP (2 x 1,200 HP, 1 x 900 HP)
Glenwood 3,000 HP (2 x 1,500 HP)
Conway 3,350 HP (900 HP, 1,200 HP, 1,250 HP)
Strawberry 3,000 HP (2 x 1,500 HP)

<u>Designation</u>	<u>Size</u>	<u>Miles</u>	<u>Commodities(C, P, HVL, NH₃)</u>
1	20"	296	Crude oil

<u>Miles of Pipeline:</u>	<u>Protected</u>	<u>Size</u>	<u>Size</u>	<u>Size</u>	<u>Unprotected</u>	<u>Size</u>	<u>Size</u>	<u>Size</u>
Steel Bare								
Steel Coated	296	20"						
Other								

Breakout Tank Facilities: (Location)

None in AR

Note:

- 2 Manual
- Mobil Pipeline - DOT liquids manual
- Hazardous liquids manual operating, maintenance and
Emergency for Consistent to Part 101

Offshore Facilities? N/A

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Satisfactory U - Unsatisfactory N/A - Not Applicable

Subpart F - Operation & Maintenance		S	U	N/A
§195.401 (b)	Has the operator corrected conditions that could adversely affect the safe operation of the pipeline within a reasonable time?			
§195.402 (a)	a. Has the operator prepared a manual for normal operations & maintenance activities & handling abnormal operations & emergencies?	✓		
	b. Does the operator review the manual at intervals not exceeding 15 months, but at least each calendar year?	✓		
	c. Are the manuals available, as required?	✓		

Maintenance & Normal Operation		S	U	N/A
§195.402 (c)	Written procedures must be followed to provide safety during maintenance and normal operations. Does the operator have procedures for:	✓		
§195.402(c)(4)	1. Has the operator determined which pipeline facilities are located in areas that would require an immediate response by the operator to prevent hazards to the public if the facilities failed or malfunctioned? <i>D-57</i>	✓		
§195.402(c)(5)	2. Analyzing pipeline accidents to determine their causes? <i>D-55</i>	✓		
§195.402(c)(6)	3. Minimizing the potential for hazards identified under paragraph (c) (4) and minimizing the possibility of recurrence of accidents analyzed under paragraph (c) (5)?	✓		
§195.402(c)(7)	4. Starting up and shutting down any part of the pipeline system in a manner designed to assure operation within the limits prescribed by §195.406, considering the hazardous liquid or carbon dioxide in transportation, variations in altitude along the pipeline, and pressure monitoring and control devices?	✓		
§195.402(c)(8)	5. In the case of a pipeline that is not equipped to fail safe monitoring from an attended location pipeline pressure during startup until steady state pressure and flow conditions are reached and during shut-in to assure operation within limits prescribed by §195.406?	✓		
§195.402(c)(9)	6. In the case of facilities not equipped to fail safe that are identified under §195.402(c)(4) or that control receipt and delivery of the hazardous liquid, detecting abnormal operating conditions by monitoring pressure, temperature, flow or other appropriate operational data and transmitting this data to an attended location?	✓		
§195.402 (c)(10)	7. Abandoning pipeline facilities, including safe disconnection from an operating pipeline system, purging of combustibles, and sealing abandoned environmental hazards?	✓		
§195.402 (c)(11)	8. Minimizing the likelihood of accidental ignition of vapors in areas near facilities identified under paragraph (c)(4) of this section where the potential exists for the presence of flammable liquids or gases?	✓		

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§195.402 (c)(12)	9. Establishing and maintaining liaison with fire, police, and other appropriate public officials to learn the responsibility and resources of each hazardous liquid pipeline emergency and acquaint the officials with the operator's ability in responding to a hazardous liquid pipeline emergency and means of communication?	✓		
§195.402 (c)(13)	10. Periodically reviewing the work done by operator's personnel to determine the effectiveness of the procedures used in normal operation and maintenance and taking corrective action where deficiencies are found? D. S. P.	✓		
§195.402 (c)(14)	11. Taking adequate precautions in excavated trenches to protect personnel from the hazards of unsafe accumulations of vapor or gas, and making available when needed at the excavation site, emergency rescue equipment, including a breathing apparatus and, a rescue harness and line.	✓		

Abnormal Operation(Control Center Function)		S	U	N/A
§195.402 (d)	Written procedures must be followed to provide safety when operating design limits have been exceeded. Does the operator have procedures for:			
	1. Responding to investigating & correcting the cause of:			
	a. Unintended closure of valves?	✓		
	b. Unintended shutdowns?	✓		
	c. An increase or decrease in pressure?	✓		
	d. A flow rate outside normal operating limits?	✓		
	e. Loss of communications?	✓		
	f. The operation of any safety device?	✓		
	g. Any other malfunction of a components?	✓		
	h. Any deviation from normal operation?	✓		
	i. Any personnel error?	✓		
	2. Checking variations from normal operation after abnormal operations have ended at sufficient critical locations in the system to determine continued integrity and safe operation?	✓		
	3. Correcting variations from normal operation of pressure and flow equipment and controls?	✓		
	4. Does operating personnel notify responsible operator personnel where notice of an abnormal operation is received?	✓		
	5. Periodically reviewing the response of operating personnel to determine the effectiveness of the procedures and taking corrective action where deficiencies are found?	✓		

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Emergencies		S	U	N/A
§195.402(e)	<p>Written procedures must be followed per §195.402(a) to provide safety when an emergency condition occurs.</p> <p style="text-align: center;"><i>II, 66</i></p> <p>Does the operator have procedures for:</p> <ol style="list-style-type: none"> 1. Receiving, identifying, & classifying notices of events which need immediate response by the operator or fire, police, or others, and notifying appropriate operator's personnel for corrective action? 	✓		
	<ol style="list-style-type: none"> 2. Making a prompt & effective response to a notice of each type of emergency, fire, explosion, accidental release of hazardous liquid, operational failure, natural disaster affecting the pipeline? 	✓		
	<ol style="list-style-type: none"> 3. Making personnel, equipment, instruments, tools & material available at the scene of an emergency? 	✓		
	<ol style="list-style-type: none"> 4. Taking action; such as emergency shutdown or pressure reduction, to minimize release of liquid at a failure site? 	✓		
	<ol style="list-style-type: none"> 5. Controlling the release of liquid at the failure site? 	✓		
	<ol style="list-style-type: none"> 6. Minimizing the public exposure and accidental ignition, evacuation, and halting traffic on roads, railroads, etc.? 	✓		
	<ol style="list-style-type: none"> 7. Notifying fire, police, others of hazardous liquid emergencies and of preplanned responses including HVLs? 	✓		
	<ol style="list-style-type: none"> 8. Determining extent & coverage of vapor cloud & hazardous areas of HVLs by using appropriate instruments? 			✓
	<ol style="list-style-type: none"> 9. Post accident review of employees activities to determine if procedures were effective & corrective action was taken? 	✓		

Subpart B - Reporting of Accidents & Safety Related Conditions		S	U	N/A
§195.402(c)(2)	Does the operator have procedures for gathering data needed for reporting accidents under Subpart B of this part in a timely and effective manner?	✓		
§195.52	<ol style="list-style-type: none"> a. Are certain incidents telephonically reported to NRC? (800) 424-8802 	✓		
§195.54	<ol style="list-style-type: none"> b. Are the incidents reported by telephone followed up with a 30-day written report? (Form 7000-1) 	✓		
§195.402 (f)	Does the operator have procedures for recognizing and discovery of safety-related conditions?	✓		
§195.56	<ol style="list-style-type: none"> a. Is there a procedure for reporting safety-related conditions? 	✓		
§195.55	<ol style="list-style-type: none"> b. If the operator reported a safety-related condition, did they use the proper criteria? 			✓
	<ol style="list-style-type: none"> c. Was the report filed within five (5) working days of determination and within ten (10) working days of discovery? 			✓
	<ol style="list-style-type: none"> d. Was proper corrective action taken? 			✓

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Underwater Inspections of Offshore Pipelines		S	U	N/A
§195.402 (a)	Procedures for §195.413?			✓
§195.413	a. Has the operator conduct an underwater inspection of its pipelines in the Gulf of Mexico and its inlets between October 3, 1989 and November 16, 1992 ?			✓
	b. When the operator discovers a pipeline, it operates, is exposed on the seabed or constitutes a hazard to navigation does the operator:			✓
	1. Promptly, within 24 hours, notify the National Response Center of the location of the pipeline?			✓
	2. Promptly, but not later than 7 days after the discovery, mark the location of the pipeline in accordance with 33 CFR Part 64 at each end of the pipeline segment and at intervals of not over 500 yards long, except that a pipeline segment less than 200 yards long need only be marked at the center.			✓
§195.57	Has the operator filed a report within 60 days of the inspection as required by §195.413			✓

Training (Control Center & Field)		S	U	N/A
§195.403 (a)	Each operator shall establish and conduct a written continuing training program to instruct operating & maintenance personnel too: <i>Not done during inspection for Control Center</i>			
	1. Carry out the operating & maintenance, and emergency response procedures established under §195.402 ?	✓		
	2. Know the characteristics and hazards of the liquids or carbon dioxide transported, including in the case of HVL, flammability, of mixtures with air , odorless vapors, water reactions?	✓		
	3. Recognize conditions that are likely to cause emergencies; predict the consequences of malfunction or failures & take appropriate actions?	✓		
	4. Take steps necessary to control any accidental release of hazardous liquid or carbon dioxide & to minimize the potential for fire, explosion, toxicity, or environmental damage?	✓		
	5. Learn the proper use of firefighting procedures & equipment , fire suits, and breathing apparatus, etc.?	✓		
	6. Safety repair facilities, special precautions, isolation, purging of HVLs?			✓
	7. Recognize & report safety related conditions?	✓		
§195.403 (b)	At intervals not exceeding 15 months, but at least once each calendar year:			
	1. Does the operator review with personnel their performance in meeting the objective of the training program?	✓		

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	2. Does the operator make appropriate changes to the training program?	✓		
§195.403 (c)	Does the operator require and verify, its supervisors maintain a thorough knowledge of the procedures they are responsible for?	✓		
Maps & Records		S	U	N/A
§195.402 (a)	Are there procedures for maintaining current maps and records?	✓		
§195.404 (a)	Each operator shall maintain current maps & records of its pipeline systems that include at least the following information: (See records check list)	✓		
	1. Location & identification of the following facilities:			
	i. Breakout tanks	✓		
	ii. Pump stations	✓		
	iii. Scraper & sphere facilities	✓		
	iv. Pipeline valves	✓		
	v. Cathodically protected facilities	✓		
	vi. Facilities to which §195.402(c)(9) applies	✓		
	vii. Rights-of-way	✓		
	viii. Safety devices to which §195.428 applies	✓		
	2. All crossings of public roads, railroads, rivers, buried utilities, & foreign pipelines.	✓		
	3. The maximum operating pressure of each pipeline.	✓		
	4. The diameter, grade, type, & normal wall thickness of each pipe.	✓		
§195.404 (b)	Does the operator maintain daily operating records that indicate the discharge pressures at each pump station for a period of 3 years? (See records check list) <i>charts at station also logged control center</i>	✓		
	Does the operator maintain daily operating records that indicate any emergency or abnormal operation to which the procedures of §195.402 apply for a period of 3 years? (See records check list)	✓		
§195.404 (c)	Does the operator maintain the following records for the periods specified: (See records check list)	✓		
	1. The date, location, & description of each repair made on pipe and maintain it for the life of the system?	✓		
	2. The date, location, & description of each repair conditions other than on pipe & maintain it for at least one year?	✓		
	3. Each inspection & test required by Subpart F must be maintained for at least 2 years, or until the next inspection or test is performed, whichever is longer? (See records check list)	✓		
§195.402(c)(1)	Making construction records, maps, & operating history available as necessary for safe operation & maintenance? (See records check list)	✓		

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Maximum Operating Pressure (MOP) - All Systems		S	U	N/A
§195.402 (a)	Procedures for §195.406?	✓		
§195.406(a)(1)	Except for surge pressures & other variations from normal operations, the MOP may not exceed any of the following: The internal design pressure of the pipe determined by §195.106.	✓		
§195.406(a)(2)	The design pressure of any other component on the pipeline.	✓		
§195.406(a)(3)	80% of the test pressure (Subpart E)	✓		
§195.406(a)(4)	80% of the factory test pressure or of the prototype test pressure for any individual component.	✓		
§195.406(a)(5)	80% of the highest operating pressure for a minimum of 4 hours for a pipeline that has not been tested.	✓		
§195.406(b)	Pipeline may not be operated at a pressure that exceed 110% of the MOP . 1. Has the operating pressure exceeded the MOP by more than 110%	✓		
	2. Are adequate controls and protective equipment installed to prevent the pressure from exceeding 110% of the MOP ?	✓		

Communications (Control Center)		S	U	N/A
§195.402(a)	Are there procedures for §195.408?	✓		
§195.408	1. Does the operator have a SCADA system?	✓		
§195.408(a)	2. Does the operator have a communications system to provide for the transmission of information needed for the safe operation of its pipeline system?	✓		
§195.408(b)	3. Does the operator have the communications to monitor operational data per §195.402(c)(9)?	✓		
	4. Does the operator have the communications to receive notices from operator personnel, public, & others about abnormal or emergency conditions and initiating corrective actions?	✓		
	5. Does the operator have two-way vocal communication between a control center & the scene of abnormal operations & emergencies?	✓		
	6. Does the operator have the communications with fire, police, & other appropriate public officials during emergency conditions, including a natural disaster?	✓		

Line Markers		S	U	N/A
§195.402(c)(1)	Are there procedures for §195.410?	✓		
§195.410(a)	1. Are line markers placed at each public road crossings, railroads crossing, and in sufficient number along the remainder of each buried line so that its location is accurately known?		✓	

see field review

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	2. Do the line markers have the correct characteristics and information [warning, product name (including CO ₂ if applicable), telephone number]?	✓		
	3. Line markers are not required at crossings of waterways or heavily developed urban areas, such as downtown business areas, where (1) placement is impracticable and (2) local government maintains current substructure records.	✓		
§195.410(c)	4. Are line markers placed where pipelines are aboveground in areas that are accessible to the public?	✓		

Inspection of Right-of-way & Crossings Under Navigable Waters		S	U	N/A
§195.402(a)	Are there procedures for §195.412?	✓		
§195.412(a)	1. Does the operator inspect the right-of-way at interval not exceeding 3 weeks, but at least 26 times each calendar year?	✓	<i>~ weekly flj</i>	
	2. Does the operator follow-up on problems noted by patrol?	✓		
§195.402(c)(1)	Are there procedures for §195.413?	✓		
§195.412(b)	1. Does the operator inspect each crossing under a navigable waterway to determine the crossing condition at intervals not exceeding 5 years?			
§195.413	a. Did the operator conduct an underwater inspection of its pipelines in the Gulf of Mexico and its inlets between October 3, 1989 and November 16, 1992 ?			✓
	b. When the operator discovers that a pipeline it operates is exposed on the seabed or constitutes a hazard to navigation does the operator:			
	1. Promptly, within 24 hours, notify the National Response Center of the location of the pipeline?	✓		
	2. Promptly, but not later than 7 days after discovery, mark the location of the pipeline in accordance with 33 CFR Part 64 at each end of the pipeline segment and at intervals of not over 500 yards long, except that a pipeline segment less than 200 yard long need only be marked at the center.			✓
	3. Place the pipeline so that the top of the pipe is 36 inches below the seabed for normal excavation or 18 inches for rock excavation within 6 months of discovery or not later than November 1 of the following year if the 6 month period is later than November 1 of the year the discovery is made.			✓

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Cathodic Protection (All Systems)		S	U	N/A
§195.402(a)	Are there procedures for §195.414?	✓		
§195.414(a)	1. Is cathodic protection provided for: a. All effectively coated lines (except tanks & pump stations), unless required by §195.414(c) ?	✓		
§195.414(b)	b. All bare & poorly coated lines where active corrosion has been found?			✓
§195.414(c)	c. All breakout tank areas and pump station piping where found to be necessary?	✓		
§195.414(b)	2. Have electrical surveys been performed to evaluate unprotected bare pipe for areas of active corrosion? (Interstate by 4/1/75), (Intrastate by 10/20/88), (Low Stress by 7/12/96)			✓
§195.414(c)	3. Have electrical surveys been performed to evaluate coated and bare unprotected breakout tank areas and pump station's piping for the need of cathodic protection. (Interstate by 4/1/73, Interstate by 10/20/88)			✓
§195.414(b)	4. The operating pressure of bare pipe that has not been electrically inspected may not be increased.			✓

External Corrosion Control		S	U	N/A
§195.402(a)	Are there procedures for §195.416?	✓		
§195.416(a)	1. Does the operator conduct tests on each underground facility under cathodic protection to determine whether the protection is adequate at intervals not exceeding 15 months, but at least once each calendar year?	✓		
	2. Does the operator conduct sufficient tests on breakout tanks to determine the adequacy of cathodic protection at intervals not exceeding 15 months, but at least once each calendar year?			✓
	3. Are casing potentials monitored to detect the presence of shorts at intervals not exceeding 15 months, but at least once each calendar year ?	✓		
	4. Does the operator have a procedure for investigating conditions that indicate a casing may be shorted (potential nearly equivalent or less than 100 mv difference). <i>Δ of 50 mV</i>	✓		
	5. Does the shorted casing procedure require or has the operator made): (Enforcement Policy)			
	a. Determination of a course of action to correct or negate the effects of the shorts within 6 months of discovery.	✓		
	b. Verification that a short exists	✓		
	c. Clearing of the short, if practicable. (This must be considered before alternative measures may be used)	✓		

Most casings were shorted during installation due to metal spacer. Casings have been filled.

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	d. Filling the casing/pipe annular space with high- dielectric casing filler or other material which provides a corrosion inhibiting environment, if it is impractical to clear the short.	✓		
	e. If (c) & (d) are determined to be impractical, does the operator monitor the casing with leak detection equipment for leakage at intervals not exceeding 7½ months, but at least twice each calendar year.			✓
	f. If a leak is found by monitoring the casing with leak detection equipment, the operator must take immediate corrective action to eliminate the leak & further corrosion.			✓
	g. In lieu of other corrective actions, monitoring the condition of the carrier pipe using an internal inspection device at specified intervals.			✓
§195.401(b)	6. Does the operator investigate & take appropriate action when indications of casing shorts are found?	✓		
§195.416(b)	7. Does the operator maintain the test leads required for cathodic protection?	✓		
§195.416(c)	8. Does the operator conduct inspections on each cathodic protection rectifiers at intervals not exceeding 2½ months, but at least six times each calendar year.	✓		
§195.416(b)	9. Was remedial action taken within a reasonable time to correct deficiencies indicated by the monitoring of the cathodic protection?	✓		
§195.416(d)	10. Does the operator conduct electrical inspection of the bare pipe that is not cathodically protected & study leak records to determine if additional protection is needed at intervals not exceeding 5 years?			✓
§195.416(e)	11. Whenever any buried pipe is exposed for any reason, does the operator examine for evidence of external corrosion?	✓		
	Does the operator investigate further to determine the extent of the corrosion, if found?	✓		
	Is adjacent pipe exposed & examined?	✓		
§195.416(f)	12. If the operator finds generally corroded pipe, is the pipe replaced, repaired, or pressure reduced?	✓		
	Is the Battelle Formula used to determine allowable pressure?	✓		
§195.416(g)	13. If the operator finds corroded pipe with isolated pitting, is pipe replaced, or pressure reduced?	✓		
	Is the Battelle Formula used to determine allowable pressure?	✓		
§.195.416(h)	14. Does the operator clean and coat pipe exposed to the atmosphere with material suitable for the prevention of atmospheric corrosion?	✓		

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Internal Corrosion Control		S	U	N/A
§195.402(a)	Procedures for §195.418?			
§195.418(a)	1. Has the operator investigated the corrosive effect of the hazardous liquid or carbon dioxide and has he taken adequate steps to mitigate corrosion?	✓		
§.195.418(b)	2. If corrosion inhibitors are used to mitigate internal corrosion; coupons must be used to determine their effectiveness.			✓
<i>Coupons are not used in this case</i>	3. Does the operator examine coupons or other methods to determine the effectiveness of the inhibitors at intervals not exceeding 7½ months, but at least twice each calendar year?			✓
§.195.418(d)	4. Whenever any pipe is removed from the pipeline for any reason, does the operator inspect the internal surface for evidence of corrosion?	✓		
	Does he investigate adjacent pipe to determine the extent of any corrosion?	✓		
	Is the Battelle Formula, or other, used?	✓		
	5. If the operator finds the pipe is internally corroded beyond the wall thickness tolerances of the pipe specification, is the pipe replaced or the pressure reduced? (Note repair is not a stated option.)	✓		
	Is the Battelle Formula, or other, used to determine the allowable pressure? (Note the use of the formula is recommended for electrolytic & galvanic corrosion chemical attack is not mentioned.)	✓		

Valve Maintenance		S	U	N/A
§195.402(a)	Procedures for §195.420?	✓		
§195.420	1. Does the operator maintain each valve that is necessary for the safe operation of its pipeline systems in good working order at all times?	✓		
	2. Does the operator inspect each mainline valve to determine that it is functioning properly at intervals not exceeding 7½ months, but at least twice each calendar year?	✓		
	3. Does the operator provide protection for each valve from unauthorized operation & from vandalism?	✓		

Pipeline Repairs		S	U	N/A
§195.402(a)	Procedures for §195.422?	✓		
§195.422	1. Does the operator, in repairing its pipeline systems, insure that the repairs are made in a safe manner & are made so as to prevent damage to persons or property?	✓		

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Pipe Movement		S	U	N/A
§195.402(a)	Procedures for §195.424?	✓		
§195.424	When moving any pipeline, does the operator comply with the precautions specified in §195.424?	✓		
	1. Pressure reduction to 50% MOP for all lines.	✓		
	2. For HVL lines joined by welding:			
	a. When it does not contain HVL, unless impractical;			✓
	b. Precautions to protect public; and			✓
	c. Pressure reduced to 50% MOP or lowest practical level (minimum= V.P. + 50 psi)			✓
	3. For HVL lines not joined by welding:			
	a. When it does not contain HVL, unless impractical;			✓
	b. Precautions to protect public; and			✓
	c. Line section is isolated			✓

Scraper & Sphere Facilities		S	U	N/A
§195.402(a)	Procedures for §195.426?	✓		
§195.426	1. Does the operator, have a relief device capable of safely relieving pressure in the barrel before insertion or removal of scrapers or spheres?	✓		
	2. Does he have a suitable device to indicate that pressure has been relieved, or a means to prevent insertion?	✓		

Overpressure Safety Devices		S	U	N/A
§195.402(a)	Procedures for §195.428?	✓		
§195.428(a)	1. Does the operator inspect and test each pressure limiting device, relief valve, pressure regulator, of other items of pressure control equipment determine that it is functioning properly, in good mechanical condition, has adequate capacity, and is reliable?	✓		
	2. Does the operator inspect & test overpressure safety devices at the following intervals?			
	a. Non-HVL pipelines: not to exceed 15 months but at least once each calender.	✓		
	b. HVL pipelines: intervals not to exceed 7½ months but at least twice each calender year.			✓
	c. Relief valves on HVL breakout tanks within 5 year intervals			✓

EVALUATION REPORT OF A LIQUID PIPELINE CARRIER

Firefighting Equipment		S	U	N/A
§195.402(a)	Procedures for §195.430?	✓		
§195.430	Does the operator maintain adequate firefighting equipment at each pump station & breakout tank areas?	✓		
	The equipment must be:			
	1. In proper operating condition at all times	✓		
	2. Plainly marked so that its identity as firefighting equipment is clear.			
	3. Located so that it is easily accessible during a fire	✓		

Breakout Tanks		S	U	N/A
§.195.402(a)	Procedures for §195.432?			✓
§.195.432	Does the operator inspect each breakout tank (atmospheric and pressured) not exceeding 15 months, but once each calender year ?			✓

Tank Inspection Survey		Yes	No	N/A
1.	Does operator periodically perform an internal visual inspection of tank bottom?			✓
2.	Do internal inspections of tank bottoms include cleaning by sand blasting?			✓
3.	Does operator have an established criteria to determine when repair and/or replacement of the tank bottoms are required?			✓
4.	Does the operator periodically ultrasonic test (U.T.) the tank bottoms?			✓
5.	Does the operator monitor cathodic protection on tank bottoms by:			
	a. Buried reference half-cells under the center of the tanks?			✓
	b. Other configurations of buried half-cells under the tanks?			✓
	c. The conduit method of inserting half-cells beneath the tanks?			✓
	d. Taking potentials around the periphery of tanks at least at each quadrant?			✓

Signs		S	U	N/A
§195.402(a)	Procedures for §195.434?	✓		
§195.434	Does the operator maintain signs visible to the public around each pumping station & breakout tank area?	✓		
	Do the signs contain the name of the operator and an emergency telephone number?	✓		

Security of Facilities		S	U	N/A
§195.402(a)	Procedures for §195.436?	✓		
§195.436	Does the operator provide protection for each pumping station and breakout tank area & other exposed facilities from vandalism & unauthorized entry?	✓		

EVALUATION REPORT OF A LIQUID PIPELINE CARRIER

Smoking or Open Flames		S	U	N/A
§195.402(a)	Procedures for §195.438?	✓		
§195.438	Does the operator prohibit smoking & open flames in each pump station & breakout tank area where there is the possibility of the presence of hazardous liquids or flammable vapors?	✓		

Public Education		S	U	N/A
§195.402(a)	Procedures for §195.440?	✓		
§195.440	Has the operator established a continuing educational program to enable the public, government, persons engaged in excavation to recognize a hazardous liquid or carbon dioxide pipeline emergency and report it to the operator, fire, police, or others?	✓		
	Conducted in English & other languages where appropriate?	✓		

New Program implemented in 1997, more detailed than earlier program

Damage Prevention Program		S	U	N/A
§195.442(a)	Does the operator have a written program in place to prevent damage by excavation activities applicable to the operator's pipelines? Does the program include:	✓		
§195.442(b)(1)	1. Include the identity, on a current basis, of persons who normally engage in excavation activities in the area in which the pipeline is located.	✓		
§195.442(b)(2)	2. Provide for notification to the public in the vicinity of the pipeline and actual notification to the persons identified in paragraph (b)(1) of this section of the following, as often as needed to make them aware of the damage prevention program: a. The program's existence and purpose; and b. How to learn the location of underground pipelines before excavation activities are begun.	✓		
§195.442(b)(3)	3. Provide a means of receiving and recording notification of planned excavation activities.	✓		
§195.442(b)(4)	4. If the operator has buried pipelines in the area of excavation activity, provide for actual notification of persons who give notice of their intent to excavate of the type of temporary marking to be provided and how to identify the markings.	✓		
§195.442(b)(5)	5. Provide for temporary marking of buried pipelines in the area of excavation activity before, as far as practical, the activity begins.	✓		
§195.442(b)(6)	6. Provide as follows for inspection of pipelines that an operator has reason to believe could be damaged by excavation activities: a. The inspection must be done as frequently as necessary during and after the activities to verify the integrity of the pipeline; and b. In the case of blasting, any inspection must include leakage surveys.	✓		

EVALUATION REPORT OF A LIQUID PIPELINE CARRIER

Passage of Internal Inspection Devices		S	U	N/A
§195.120(a)	Has each new pipeline or each section of a pipeline which pipe or components has been replaced must be designed and constructed to accommodate the passage of instrumented internal inspection devices that are applicable to this section?			✓

Subpart E - Pressure Testing		S	U	N/A
§195.302(a)	1. Does the operator hydrostatically test each new pipeline system and each pipeline system in which pipe has been relocated or replaced, or that part of a pipeline system that has been relocated or replaced?	✓		
§195.302(b)	2. Have all lines been tested or are scheduled to be tested if MOP has not been established by §195.406(a)(5) per the requirements of this section?	✓		
§195.303	3. Does the operator test its pipelines to the correct pressures & for the correct duration?	✓		
§195.304(a)	4. Does the operator, hydrostatically test under §195.302 all pipe, all attached fittings, including components, unless otherwise permitted by §195.304(b) ?	✓		
§195.306	5. Is water used as the test medium?	✓		
§195.308	6. Does the operator pressure test pipe associated with tie-ins as one segment or tested separately?	.		✓
§.195.310(a)	7. Does the operator maintain a record of each pressure test required by this Subpart ? (record of the latest test must be retained.) (See record check list)	✓		
§195.310(b)	8. Does the record required by paragraph (a) of this Section include: (See record check list)			
<i>Reviewed for repair of damage line replacement (3rd party done)</i>	a. Pressure recording charts.	✓		
	b. Test instrument calibration data.	✓		
	c. Name of operator, person responsible, test company used, if any.	✓		
	d. Date and time of the test.	✓		
	e. Minimum test pressure.	✓		
	f. Test medium.	✓		
	g. Description of facility tested and test apparatus.	✓		
	h. Explanation of any pressure discontinuities, test failures, that appear on the pressure recording chart.	✓		
	i. Where elevation differences in the test section exceed 100 feet, a profile of the elevation over entire length of test section must be included.	✓		

EVALUATION REPORT OF A LIQUID PIPELINE CARRIER

Subpart D - Welding		S	U	N/A
Compliance with welding requirements for pipe replaced or repaired in the course of pipeline maintenance is required by 195.422, as well as 195.200.				
§195.214	Is welding performed by welders, who have been qualified in accordance with Section 3 of the API Standard 1104 or Section IX of the ASME Boiler & Pressure Vessel Code (1995), except that a welder qualified under an earlier edition than listed in Par. 195.3 may weld, but may not requalify under that earlier edition?	✓		
Records of Welders Qualification	a. Is the welding performed in accordance with welding procedures qualified to produce welds meeting the requirements of API 1104, Section 6? (18th Ed., 1994) <small>(see records check list)</small>	✓		
§195.228(b)	1. Butt welding	✓		
	2. Fillet welding (sleeves, repair fittings)	✓		
Alert Notice 3/13/88	In the welding of repair sleeves and fittings, does the operator's procedures give consideration to:			
	1. The use of low hydrogen welding rod	✓		
	2. Cooling rate of the weld	✓		
	3. Metallurgy of the materials welding (weldability carbon equivalent)	✓		
	4. Proper support of the pipe in the ditch	✓		
§195.214(b)	a. Is each welding procedure recorded in detail?	✓		
	b. Are welding procedures qualified in accordance with a standard that is accepted by the industry? (API 1104; ASME Boiler & Pressure Vessel Code; or other)	✓		
§195.214(a)	c. Has the quality of the test welds to qualify the procedures been determined by destructive testing?	✓		
§195.214(b)	d. Are detailed results of the procedure qualification tests recorded & retained? <small>(See record check lists)</small>	✓		

Welding: Arc Burns		S	U	N/A
§195.226(a)	1. Does the operator require the repair (within pipe & (b) specification thickness tolerances) or replacement of arc burns?	✓		
§195.226(b)	2. Does the operator require verification of the removal of the metallurgical notch by nondestructive testing? (Ammonium persulfate)	✓		
§195.226(c)	3. When pipe is being welded, is the ground wire attached to the pipe by other means than welding?	✓		

EVALUATION REPORT OF A LIQUID PIPELINE CARRIER

Welds: Acceptability Nondestructive Testing		S	U	N/A
§195.228	Does the operator nondestructively test welds to insure their acceptability according to Section 6 of API 1104 (18th) & per the requirements of §195.234 in regard to the number of welds to be tested?	✓		
§195.234(b)	Is nondestructive testing of welds performed:			
	a. In accordance with written procedures for NDT.	✓		
	b. By qualified personnel.	✓		
	c. By a process that will indicate any defects that may affect the integrity of the weld.	✓		
§195.266	Does the operator maintain records of the total number of girth welds & the number nondestructively tested, including the number rejected & the disposition of each rejected weld? (See record check list)	✓		

Welds: Repair or Removal of Defects		S	U	N/A
§195.230	Does the operator remove and/or repair welds that are unacceptable in accordance with the requirements of §195.230?	✓		

EVALUATION REPORT OF A LIQUID PIPELINE CARRIER

FIELD REVIEW OF PIPELINE		S	U	N/A
§195.262	1. Pumping Stations	✓		
§195.262	2. Station Safety Devices	✓		
§195.308-12	3. Pre-pressure Testing Pipe-Marking & Inventory			✓
§195.403	4. Knowledge of Operating Personnel	✓		
§195.410	5. ROW Markers		✓	
§195.412	6. River Crossing	✓		
§195.414	7. Cathodic Protection		✓	
§195.416	8. Pipeline Components Exposed to the Atmosphere	✓		
§195.416	9. Rectifiers	✓		
§195.420	10. Valve Maintenance	✓		
§195.420	11. Valve Protection from Unauthorized Operation & Vandalism	✓		
§195.426	12. Scraper & Sphere Facilities & Launchers	✓		
§195.428	13. Pressure Limiting Devices	✓		
§195.428	14. Relief Valves - Location - Pressure Setting -Maintenance	✓		
§195.428	15. Pressure Controllers	✓		
§195.430	16. Fire Fighting Equipment	✓		
§195.432	17. Breakout Tanks			✓
§195.434	18. Signs - Pumping Station - Breakout Tanks	✓		
§195.436	19. Security - Pumping Stations - Tanks	✓		
§195.438	20. No Smoking Signs	✓		

Row markers - need row markers via MP 188.1 on ROW in forest
also marker missing at Rd #1, MP 266.7

Corrosion Control - Low CP readings on pump station piping at
Carney, AR pump station
 Valve 15 -787 mV
 Pig launcher -731 mV
 strainer -662 mV
 Corr Tech will install mag probes on pipes at Row 97
 when a valve replacement is done at the pump station

EVALUATION REPORT OF A LIQUID PIPELINE CARRIER

RECORDS REVIEW FOR LIQUIDS PIPELINES

Operator's Name Mobil Pipeline Co Inspection Location Foreman, AR
 Inspector's Name Michael Schwabkopf Date: 20 Oct 97

PART 195 RECORDS REVIEW

		S	U	N/A
.5	Conversion To Service			✓
.5(a)(1)	Testing To Verify MOP (ASME< Appendix N)			✓
.5(a)(2)	Inspection of Pipeline Right-of-Way			✓
.5(c)	Pipeline Records (Life of System)			✓
	Pipeline Investigations			✓
	Pipeline Testing			✓
	Pipeline repairs			✓
	Pipeline Replacement			✓
	Pipeline Alteration			✓
.52	Telephonic Report to NRC (800) 424-8802)	✓		
.54(a)	Written Accident Report (Form 7000.1)	✓		
.54(b)	Supplemental Accident Report (Form 7000.1)			✓
.56	Safety Related Conditions			✓
.57	Offshore Pipeline Condition Report			✓
.204	Construction Inspector Training/Qualify			✓
.214(a)	Interference Bonds	✓		
.214(b)	Test results to Qualify Welding Procedures			✓
.222	Welder Qualification	✓		
.234(b)	Nondestructive Technician Qualification	✓		
0.242	Cathodic Protection System	✓		
.244	Test Leads	✓		
.262(c)	Testing of Safety Devices at Pump Stations prior to Service	✓		
.266	Construction Records	✓		

EVALUATION REPORT OF A LIQUID PIPELINE CARRIER

PART 195 RECORDS REVIEW (cont.)

		S	U	N/A
.266 (a)	Total Number of Girth welds	✓		
	Number inspected by NDT	✓		
	Number of Rejected	/		
	Disposition of each Rejected	/		
.266 (b)	Amount, Location, Cover of each size of Pipe installed	/		
.266 (c)	Location of each Crossing with another Pipeline	✓		
.266 (d)	Location of each buried Utility Crossing	✓		
.266 (e)	Location of Overhead Crossing	✓		
.266 (f)	Location of each Valve & Test Station	✓		
.302/.310	Record of each Pipeline Test	✓		
.304 (b)	Manufacturer Testing of Components	✓		
.308	Test on Pre-tested Pipe			✓
.402 (c)(4)	Determination of Areas requiring immediate response of Failure or Malfunction	✓		
402 (c)(10)	Abandonment of Facilities			✓
.402 (c)(12)	Establishment/Maintaining liaison with Fire, Police, & other Emerg Agencies	✓		
.402 (c) (13)	Review of work Performed by Personnel	✓		
.402 (d)(1)	Response to Abnormal Pipeline Operation	✓		
.402 (d) (5)	Review of Personnel response to abnormal Operation	✓		
.402 (e) (1)	Notices of Emergencies	✓		
.402 (e) (7)	Notification to Fire, Police, Other Public Officials of an Emergency	✓		

EVALUATION REPORT OF A LIQUID PIPELINE CARRIER

PART 195 RECORDS REVIEW (cont.)

		S	U	N/A
.402 (e)(9)	Post Accident Review <i>1995 record</i>	✓		
.403 (a)	Employees Training	✓		
.403 (b)	Annual Review Personnel Performance	✓		
.403 (c)	Verification of Supervisor Knowledge.	✓		
.404 (a)(1)	Map or Record of Pipeline System	✓		
.404 (a)(2)	Maps/Records Crossing of Roads,Rivers, Utilities & Pipelines	✓		
.404 (a) (3)	MOP of each Pipeline	✓		
.404(a)(4)	Pipeline Specifications	✓		
.404(b)(1)	Pump Station Daily Discharge Pressure	✓		
.404(b)(2)	Abnormal Operation (.402)	✓		
.404 (c)(1)	Pipe Repair	✓		✓
.404 (c)(2).	Repair to Parts of System other than Pipe	✓		
.406 (a)	Establishing MOP	✓		
.412 (a)	Inspection of ROW	✓		
.412 (b)	Inspection of Underwater Crossings of Navigable Waterways	✓		
.413	Inspection of Pipelines in Gulf of Mexico			✓
.414 (b)	Inspection of Bare Pipelines			✓
.416 (a)	External Corrosion Control	✓		
.416 (c)	Inspection of Rectifiers	✓		
.403(b)	Annual Review Personnel Performance	✓		
.416 (d)	Inspection of Unprotected Pipeline Facilities			✓
.416 (e)	Inspection of Exposed Pipeline/External Corrosion	✓		
.418 (a)	Corrosive of Liquid being Transported	✓		
.418 (c)	Examination of Coupons/Other Types of Internal Corrosion Monitoring Equipment			✓

EVALUATION REPORT OF A LIQUID PIPELINE CARRIER

PART 195 RECORDS REVIEW (cont.)

		S	U	N/A
195.418(d)	Inspection on removed pipe for internal corrosion			✓
195.420(a)	Inspection of valves necessary for safe operation	✓		
195.420(b)	Inspection of mainline valves	✓		
195.422	Pipeline repair record	✓		
195.428(a)	Inspection of overpressure safety devices	✓		
195.428(b)	Inspection of relief devices on HVL tanks			✓
195.430	Inspection of firefighting equipment	✓		
195.432	Inspection of breakout tank			✓
195.440	Record of continuing educational program	✓		
195.442(b)(1)	List of current excavators	✓		
195.442(b)(2)	Record of notification of public/excavators	✓		
195.442(b)(3)	Record of notifications	✓		

PIPE DATA AND OPERATING STRESSES

$$P = \frac{2 St}{D}$$

$$\%SMYS = \frac{P \text{ MOP/MAOP}}{P \text{ 100\% SMYS}}$$

Hazardous Liquid X
 Natural Gas

Operator: Mobil EOR Crude NBU

 Initials Date

Pipeline Name/No.	Miles	Pipe Size	Class Location*	MOP/MAOP** (psi)	
Conway Station to Strawberry Station	80.2	20"	N/A	891	
Pipe Specification	SMYS (psi)	Outside Dia.	Wall Thick.	Pressure (100% SMYS) psi	%SMYS (Based on MOP/MAOP)
API 5LX-42	42,000	20.000	0.312	1310	68.0

Pipeline Name/No.	Miles	Pipe Size	Class Location*	MOP/MAOP** (psi)	
Strawberry Station to Doniphan Station	62.3	20"	N/A	928	
Pipe Specification	SMYS (psi)	Outside Dia.	Wall Thick.	Pressure (100% SMYS) psi	%SMYS (Based on MOP/MAOP)
API 5LX-42	42,000	20.000	0.312	1310	70.8

Pipeline Name/No.	Miles	Pipe Size	Class Location*	MOP/MAOP** (psi)	
Doniphan Station to Yount Station	71.9	20"	N/A	887	
Pipe Specification	SMYS (psi)	Outside Dia.	Wall Thick.	Pressure (100% SMYS) psi	%SMYS (Based on MOP/MAOP)
API 5LX-42	42,000	20.000	0.312	1310	67.7

Pipeline Name/No.	Miles	Pipe Size	Class Location*	MOP/MAOP** (psi)	
Yount Station to Patoka Station	103.3	20"	N/A	819	
Pipe Specification	SMYS (psi)	Outside Dia.	Wall Thick.	Pressure (100% SMYS) psi	%SMYS (Based on MOP/MAOP)
API 5LX-42	42,000	20.000	0.312	1310	62.5

Pipeline Name/No.	Miles	Pipe Size	Class Location*	MOP/MAOP** (psi)	
Pipe Specification	SMYS (psi)	Outside Dia.	Wall Thick.	Pressure (100% SMYS) psi	%SMYS (Based on MOP/MAOP)

* For liquid lines, indicates non-rural for gathering only

** MAOP is based on hydrostatic test and is at the discharge end at the upstream pump station adjusted for elevation difference.

PIPE DATA AND OPERATING STRESSES

$$P = \frac{2 St}{D}$$

$$\%SMYS = \frac{P \text{ MOP/MAOP}}{P \text{ 100\% SMYS}}$$

Hazardous Liquid
 Natural Gas

Operator: Mobil EOR Crude NBU

Initials

Date

Pipeline Name/No.	Miles	Pipe Size	Class Location*	MOP/MAOP** (psi)
Corsicana Station to Quitman Station	82.7	20"	N/A	901
Pipe Specification	SMYS (psi)	Outside Dia.	Wall Thick.	Pressure (100% SMYS) psi
API 5LX-42	42,000	20.000	0.312	1310
				%SMYS (Based on MOP/MAOP)
				68.8

Pipeline Name/No.	Miles	Pipe Size	Class Location*	MOP/MAOP** (psi)
Quitman Station to Winnsboro Station	15.8	20"	N/A	898
Pipe Specification	SMYS (psi)	Outside Dia.	Wall Thick.	Pressure (100% SMYS) psi
API 5LX-42	42,000	20.000	0.312	1310
				%SMYS (Based on MOP/MAOP)
				68.5

Pipeline Name/No.	Miles	Pipe Size	Class Location*	MOP/MAOP** (psi)
Winnsboro Station to Foreman Station	68	20"	N/A	873
Pipe Specification	SMYS (psi)	Outside Dia.	Wall Thick.	Pressure (100% SMYS) psi
API 5LX-42	42,000	20.000	0.312	1310
				%SMYS (Based on MOP/MAOP)
				66.6

Pipeline Name/No.	Miles	Pipe Size	Class Location*	MOP/MAOP** (psi)
Foreman Station to Glenwood Station	71.8	20"	N/A	894
Pipe Specification	SMYS (psi)	Outside Dia.	Wall Thick.	Pressure (100% SMYS) psi
API 5LX-42	42,000	20.000	0.312	1310
				%SMYS (Based on MOP/MAOP)
				68.2

Pipeline Name/No.	Miles	Pipe Size	Class Location*	MOP/MAOP** (psi)
Glenwood Station to Conway Station	91.9	20"	N/A	854
Pipe Specification	SMYS (psi)	Outside Dia.	Wall Thick.	Pressure (100% SMYS) psi
API 5LX-42	42,000	20.000	0.312	1310
				%SMYS (Based on MOP/MAOP)
				65.2

For liquid lines, indicates non-rural for gathering only
 MAOP is based on hydrostatic test and is at the discharge end at the upstream pump station adjusted for elevation difference.