

Submit 1 Copy To Appropriate District
Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-35955
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> LPG Storage <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Western Refining Company, LP		6. State Oil & Gas Lease No.
3. Address of Operator 19100 Ridgewood Parkway, San Antonio, TX 78259		7. Lease Name or Unit Agreement Name State LPG Storage Well
4. Well Location Unit Letter <u>M</u> : <u>100</u> feet from the <u>South</u> line and <u>280</u> feet from the <u>West</u> line Section <u>32</u> Township <u>23S</u> Range <u>37E</u> NMPM <u>Lea</u> County		8. Well Number #002
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 248440
10. Pool name or Wildcat Salado		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: MIT & Workover <input checked="" type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Purpose: workover and annual MIT of LPG Storage Well #2

Date Work Began: March 6, 2021 Date Work Completed: March 20, 2021

Western has completed a workover, casing inspection logging and MIT on State LPG Storage Cavern #002. The Nitrogen-Brine Interface Test Method was used for the test. Nitrogen was injected on March 15th, 2021 and March 16th, 2021 to achieve the desired interface depth below the casing shoe. The well was allowed to stabilize for approximately 12 hours and on March 17th at 08:30 the MIT was initialized with an annulus (nitrogen) pressure of 1,269.06 psig and a tubing (brine) pressure of 459.53 psig with the nitrogen-brine interface at 1,697 feet. The test was finalized on March 19th, 2021 at 08:30 with an annulus (nitrogen) pressure of 1,266.56 psig and tubing (brine) pressure of 455.74 psig with the nitrogen-brine interface at 1,697 feet. The calculations yielded a calculated leak rate ("CLR") of 807.19 barrels per year and a Minimum Detectable Leak Rate ("MDLR") of 892.88 barrels per year. The well was tested to a test gradient of 0.81 psi/ft at the 7 inch cemented casing shoe (1,672 feet). Considering these results and the guidelines set forth by the Oil Conservation Division of New Mexico, State LPG Storage Cavern #002 at the Jal Station Field, at the time of this test, demonstrated the mechanical integrity required for the storage of hydrocarbons. (See attachment for final reports)

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.


SIGNATURE Jessica O'Brien TITLE Environmental Supervisor DATE April 30, 2021


Type or print name Jessica O'Brien E-mail address: jobrien@marathonpetroleum.com PHONE: (210) 626-7774


For State Use Only


APPROVED BY: Carl J. Shively TITLE Environmental Engineer DATE 6/21/2021


Conditions of Approval (if any):


		WORKOVER		Project No.: TBD		
				Date: January 2021		
		Marathon Petroleum Company LP State LPG Well No. 2		Page: 1 of 13		
Well: Well No. 2		State: New Mexico		County: Lea		Field: Langlie Mattix
Well API#: 30-025-35955		Operator: Marathon		Location: Jal, NM		Status: Active Storage
INTRODUCTION: <p>Marathon Petroleum Company LP (MPC) issued a request for proposal to Lonquist Field Service (LFS) to workover Well No. 2 at their facility near Jal, New Mexico. The purpose of the workover is to ensure the cavern is fit for service, safe to operate and industry best practices are followed. During the workover we will remove the hanging string, run casing inspection logs to evaluate casing integrity, inspect and refurbish the hanging string and wellhead components, install the hanging string and install the wellhead assembly. After the hanging string is installed, a thru tubing sonar survey will be recorded to map the cavern shape and measure the cavern volume. An optional thru tubing casing inspection log may also be run at this time. Following completion of the workover, a nitrogen/brine mechanical integrity test will be performed to evaluate cavern integrity. The MIT procedure is submitted under separate cover and will be refined based on information collected during the workover.</p> <p>Additional information for the workover of Well No. 2 is included or referenced in this document. The additional information includes:</p> <ul style="list-style-type: none"> • Contact Information • Vendor List • Wellhead Schematic • Wellbore Schematic • Historic Sonar Survey • Retrievable Bridge Plug (RBP) Running Procedure • Explosive Safety Checklist <p>REGULATORY INFORMATION:</p> <p>Well No. 2 is regulated by the New Mexico Oil Conservation Division (NMOCD). Final Workover and MIT reports will be submitted to MPC and the NMOCD within 30 days of completion in the field.</p> <p>Oil Conservation Division – Division 1 1625 N. French Drive Hobbs, NM 88240</p> <ul style="list-style-type: none"> • Kerry Fortner – Compliance <ul style="list-style-type: none"> ○ Office – (575) 393-6161 ext. 120 ○ Mobile – (575) 263-6633 ○ Email - kerry.fortner@state.nm.us <p>SAFETY INFORMATION:</p> <p>LFS believes that all accidents and incidents are preventable. Our corporate goal is to have zero incidents, accidents, or near misses. To further our commitment to safety, LFS has staffed a Safety Director, whose sole purpose is to identify and mediate possible safety concerns and to be a resource for advice on such safety issues. He will be involved in work safety plans, managing JSAs, and offering oversight on our daily safety meeting program. We require that all of our employees and subcontractors accept that philosophy and uphold the standards of LFS. Our field supervisors are well-control certified, with both site specific and industry required safety qualifications related to new well drilling and well workovers. LFS supervisors are responsible to complete pre-job meetings with the contractors and clients, obtain daily work permits, complete JSAs, safety meetings, review Emergency Response Plans, identify any unsafe practices or</p>						
PREPARED BY	DATE	APPROVED BY	DATE	CLIENT APPROVAL	DATE	Client Signature
WHG	1/14/2021					


		<h1 style="text-align: center;">WORKOVER</h1>		Project No.: TBD		
				Date: January 2021		
		Marathon Petroleum Company LP State LPG Well No. 2		Page: 2 of 13		
Well: Well No. 2	State: New Mexico	County: Lea	Field: Langlie Mattix			
Well API#: 30-025-35955	Operator: Marathon	Location: Jal, NM	Status: Active Storage			
<p>potential hazards, and implement corrective actions to minimize employee exposure. LFS implements a site specific safety plan that defines the scope of work and identifies the appropriate safety standards and responsibilities for applicable parties for each project performed. LFS will implement a complete HSE plan for all phases of the operation. Our goal is always to ensure compliance with all client needs, as well as all local, State, and Federal safety and environmental regulations.</p> <p>Well site safety meetings will be conducted at the beginning of each day and at the beginning of critical operations by the LFS supervisor prior to commencing any well work. All contractors involved during the day or critical operations will be required to attend the safety meeting, and all will be required to participate in the JSA process.</p> <p>In order to protect personnel from the novel Coronavirus (COVID-19) and maintain continuity of operations, LFS has issued certain guidelines for our field personnel and personnel who visit site locations as part of their responsibilities. We understand not all situations are the same and in circumstances not outlined in the attached Health and Safety Manual personnel should contact their immediate supervisor for additional guidance.</p> <p>The following protocols will be addressed daily:</p> <ul style="list-style-type: none"> • Location access limited to essential personnel only • Body Temperature Surveys • Review of hygiene and wellness • Review travel and contact expectations • Review safety phone numbers and expectations • Update all stakeholders of work or policy changes <p>The following safety gear and personal protective equipment are required:</p> <ul style="list-style-type: none"> • Hard Hat • Safety Glasses • Fire Retardant Coveralls • Safety Shoes w/Ankle Support – Leather or Rubber • Gloves • Fall protection required – 4' or above • Any additional required safety equipment • Daily Safety Meeting • JSA Form – Completed Daily <p>Additional safety and housekeeping items include:</p> <ul style="list-style-type: none"> • All personnel will be required to complete the site specific safety orientation required by MPC • Zero tolerance for any fluid release • Spills and releases to be reported to LFS and MPC • Any Injuries and Near Misses are to be reported and investigated to/by LFS and MPC • Hot work will require a hot work permit issued by MPC • Vehicles to have company placards or logos • Good housekeeping standards 						
PREPARED BY	DATE	APPROVED BY	DATE	CLIENT APPROVAL	DATE	Client Signature
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		<h1 style="text-align: center;">WORKOVER</h1>		Project No.: TBD		
				Date: January 2021		
		Marathon Petroleum Company LP State LPG Well No. 2		Page: 3 of 13		
Well: Well No. 2		State: New Mexico		County: Lea		Field: Langlie Mattix
Well API#: 30-025-35955		Operator: Marathon		Location: Jal, NM		Status: Active Storage
<p>WORK PLAN:</p> <p>Daily work activities will commence after all permits have been acquired and daily safety meetings have been completed. MPC will take the well out of service prior to mobilizing equipment.</p> <p>Well Preparation</p> <ol style="list-style-type: none"> 1. MPC will empty the cavern of stored product and flare any residual product prior to mobilization of equipment 2. Survey and prepare well location for service equipment 3. Rig Anchors <ol style="list-style-type: none"> a. Existing rig anchors on all 4 cavern locations will be pull tested to 20,000 lbs prior to mobilization b. Install and test new/additional rig anchors as necessary c. Complete 811 call at least 48 hours in advance 4. Remove all surface equipment, instrumentation and piping <ol style="list-style-type: none"> a. Brine and product flowlines and miscellaneous equipment b. Remove fencing, barriers and scaffolding c. Valves on piping to be locked out and isolated prior to removing equipment <p>Workover</p> <ol style="list-style-type: none"> 5. Move in and rig up workover rig and equipment <ol style="list-style-type: none"> a. Workover Rig Package <ol style="list-style-type: none"> i. Fluid Pump ii. Tank iii. Flow Equipment iv. Hydraulic Catwalk v. Pipe Racks vi. Power Swivel b. BOP Package <ol style="list-style-type: none"> i. 7-1/16" 5M Annular ii. 7-1/16" 5M x 7-1/16" 3M DSA iii. 7-1/16" 5M x 11" 3M DSA iv. Diesel Powered Accumulator v. Steel Flex Hoses 6. Confirm zero wellhead pressure <ol style="list-style-type: none"> a. Circulate well with brine to ensure the cavern in brine full 7. Set BPV in tubing hanger 8. Nipple down wellhead to 7-1/16" 3M product casing spool <ol style="list-style-type: none"> a. Be prepared to cut bolts to remove wellhead section <ol style="list-style-type: none"> i. Obtain hot work permit if any cutting occurs b. All wellhead equipment to be inspected and refurbished/replaced as necessary c. All wellhead bolts and gaskets to be replaced with Teflon coated bolts and stainless steel gaskets 9. Nipple up 7-1/16" 5M annular BOP and DSA on the product casing spool flange <ol style="list-style-type: none"> a. Function test BOP 10. Remove BPV 11. Rig up casing spear and grapple for hanging string 12. Spear, pull and laydown hanging string <ol style="list-style-type: none"> a. 3-1/2", 12.95 lb/ft, PH-6 						
PREPARED BY	DATE	APPROVED BY	DATE	CLIENT APPROVAL	DATE	Client Signature
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		<h1 style="text-align: center;">WORKOVER</h1>		Project No.: TBD		
				Date: January 2021		
		Marathon Petroleum Company LP State LPG Well No. 2		Page: 4 of 13		
Well: Well No. 2		State: New Mexico		County: Lea		Field: Langlie Mattix
Well API#: 30-025-35955		Operator: Marathon		Location: Jal, NM		Status: Active Storage
<p>13. Tally, visually inspect and send hanging string for cleaning and inspection immediately</p> <ol style="list-style-type: none"> Thread cleaning and inspection Full body Electro-Magnetic Inspection (EMI) Repair/replace joints as necessary <p>14. Pick up 2-7/8" work string</p> <p>15. Run 5-1/2" casing scraper to liner shoe and POOH</p> <p>16. Set 5-1/2" RBP at approximately 500'</p> <ol style="list-style-type: none"> Set according to attached procedure Set at least 5' from a collar Pressure test RBP at 500 psi for 30 minutes on chart <p>17. Nipple down BOP</p> <p>18. Nipple down wellhead and remove the product casing spool and product wing valves</p> <ol style="list-style-type: none"> Be prepared to cut bolts to remove wellhead section <ol style="list-style-type: none"> Obtain hot work permit if any cutting occurs All wellhead equipment to be inspected and refurbished/replaced as necessary All wellhead bolts and gaskets to be replaced with Teflon coated bolts and stainless steel gaskets <p>19. Nipple up 7-1/16" 5M annular BOP and DSA on the 11" 3M bradenhead flange</p> <ol style="list-style-type: none"> Function test BOP <p>20. Pull 5-1/2" RBP</p> <ol style="list-style-type: none"> Retrieve according to attached procedure <p>21. Rig up wireline equipment</p> <ol style="list-style-type: none"> Run junk basket, gauge ring and CCL <ol style="list-style-type: none"> Locate 7" Casing Shoe, 5-1/2" Liner Shoe and Last 5-1/2" Collar Run all logs past last 5-1/2" collar Run photon density log <ol style="list-style-type: none"> Log across 7" casing shoe (200' – 1,700') Run Multi-Finger Caliper <ol style="list-style-type: none"> 5-1/2", 15.5 lb/ft Liner (0' – 1,656') 7", 20 lb/ft Casing (0' – 1,672') <ol style="list-style-type: none"> Casing Shoe @ 1,672' – Do not go outside shoe Run Magnetic Flux Leakage log <ol style="list-style-type: none"> 5-1/2", 15.5 lb/ft Liner (0' – 1,656') 7", 20 lb/ft Casing (0' – 1,672') <ol style="list-style-type: none"> Casing Shoe @ 1,672' – Do not go outside shoe Run Electro-Magnetic Thickness log <ol style="list-style-type: none"> 5-1/2", 15.5 lb/ft Liner (0' – 1,656') 7", 20 lb/ft Casing (0' – 1,672') <ol style="list-style-type: none"> Casing Shoe @ 1,672' – Do not go outside shoe <p>22. Evaluate casing inspection logs and determine if remediation is required</p> <ol style="list-style-type: none"> If a production trap is identified behind the production casing, perforate and mill casing to remove trap If significant corrosion is recorded, remediation may be required <p>23. Set 5-1/2" RBP at approximately 500'</p> <ol style="list-style-type: none"> Set according to attached procedure Set at least 5' from a collar Set at least 5' from previous setting depth Pressure test RBP/Isolation Packer at 500 psi for 30 minutes on chart <p>24. Nipple down BOP</p>						
PREPARED BY	DATE	APPROVED BY	DATE	CLIENT APPROVAL	DATE	Client Signature
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		<h1 style="text-align: center;">WORKOVER</h1>		Project No.: TBD		
				Date: January 2021		
		Marathon Petroleum Company LP State LPG Well No. 2		Page: 5 of 13		
Well: Well No. 2		State: New Mexico		County: Lea		Field: Langlie Mattix
Well API#: 30-025-35955		Operator: Marathon		Location: Jal, NM		Status: Active Storage
<p>25. Nipple up refurbished/new product casing spool and product wing valves</p> <ol style="list-style-type: none"> Teflon coated bolts Stainless steel gaskets Jet Lube 550 X-treme <p>26. Nipple up 7-1/16" 5M annular BOP and DSA on the 7-1/16" 3M product casing spool flange</p> <ol style="list-style-type: none"> Function test BOP <p>27. Pull 5-1/2" RBP</p> <ol style="list-style-type: none"> Retrieve according to attached procedure <p>28. Offload and tally refurbished/new hanging string</p> <ol style="list-style-type: none"> 3-1/2" PH-6 <p>29. Rig up casing crew, torque turn equipment and external connection pressure testing equipment</p> <p>30. Make up 4-3/4" tri-cone bit and RIH</p> <p>31. Run 3-1/2" drill pipe to cavern TD</p> <ol style="list-style-type: none"> Torque Turn each connection to optimum torque Externally pressure test each connection to 1,500 psi for 60 seconds <ol style="list-style-type: none"> Confirm 80% of collapse rating is not exceeded Check with Engineer for final setting depth Once the bit enters open hole, slowly run string in hole At first sign of weight loss, pick up string, rig up power swivel, and slowly run string in hole rotating and circulating. Work through any tight spots encountered monitoring torque and stick/slip. Minimize weight on bit. <p>32. Run 3-1/2" drill pipe to TD, space out and land tubing hanger</p> <p>33. Set BPV in tubing hanger</p> <p>34. Nipple down BOP</p> <p>35. Nipple up refurbished/new wellhead equipment and valves</p> <ol style="list-style-type: none"> Energize P-seals and pressure test tubing hanger void to 3,000 psi for 15 minutes on chart <p>36. Remove BPV</p> <p>37. Rig up wireline equipment</p> <ol style="list-style-type: none"> Run Gauge Ring/Collar Locator and tag bit Run thru-tubing sonar survey <ol style="list-style-type: none"> 2 ft horizontal intervals Send field copy to LFS as soon as complete Optional: Run EMT thru-tubing casing inspection log (eddy current tool) <ol style="list-style-type: none"> Log across 7" casing shoe (0' – 1,700') Compare logging results with previously recorded casing inspection logs and determine validity as a base thru-tubing casing inspection log moving forward Run jet cutter and cut off 4-3/4" bit <ol style="list-style-type: none"> Explosive Safety Checklist must be followed at all times (attached) Cut immediately above bit Perforate weep hole 1' above end of hanging string <ol style="list-style-type: none"> Explosive Safety Checklist must be followed at all times (attached) <p>38. Confirm circulation and pre-pressure cavern to calculated MIT pressure</p> <ol style="list-style-type: none"> Circulate at least 40 bbls of brine at 2 bpm MIT pre-pressure is dependent on sonar survey and data collected in the field <p>39. Rig down workover rig and move off location</p> <p>40. Complete Cavern MIT (submitted under separate cover)</p>						
PREPARED BY	DATE	APPROVED BY	DATE	CLIENT APPROVAL	DATE	Client Signature
WHG	1/14/2021					


		WORKOVER		Project No.: TBD		
				Date: January 2021		
		Marathon Petroleum Company LP State LPG Well No. 2		Page: 6 of 13		
Well: Well No. 2		State: New Mexico		County: Lea		Field: Langlie Mattix
Well API#: 30-025-35955		Operator: Marathon		Location: Jal, NM		Status: Active Storage
Contact Information						
Well Owner – Marathon Petroleum Company LP						
Marathon Petroleum Logistics Services LLC 803 N 300 W Salt Lake City, UT 84103						
<ul style="list-style-type: none"> • Sam Flessner – Owner's Representative <ul style="list-style-type: none"> ○ Telephone – (419) 348-4269 ○ Email – siflessner@marathonpetroleum.com 						
New Mexico Oil Conservation Division						
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505						
<ul style="list-style-type: none"> • Daniel Sanchez – Enforcement <ul style="list-style-type: none"> ○ Telephone – (505) 476-3493 ○ Email - daniel.sanchez@state.nm.us 						
Oil Conservation Division – Division 1 1625 N. French Drive Hobbs, NM 88240						
<ul style="list-style-type: none"> • Kerry Fortner – Compliance <ul style="list-style-type: none"> ○ Office – (575) 393-6161 ext. 120 ○ Mobile – (575) 263-6633 ○ Email - kerry.fortner@state.nm.us 						
PREPARED BY	DATE	APPROVED BY	DATE	CLIENT APPROVAL	DATE	Client Signature
WHG	1/14/2021					


		WORKOVER		Project No.: TBD		
				Date: January 2021		
		Marathon Petroleum Company LP State LPG Well No. 2		Page: 7 of 13		
Well: Well No. 2	State: New Mexico	County: Lea	Field: Langlie Mattix			
Well API#: 30-025-35955	Operator: Marathon	Location: Jal, NM	Status: Active Storage			
Engineering Consultants <p>Lonquist Field Service, LLC 1415 Louisiana St., Suite 3800 Houston, Texas 77002</p> <ul style="list-style-type: none"> Richard R. Lonquist, P.E. – Chairman <ul style="list-style-type: none"> Telephone – (512) 732-9812 Fax – (512) 732-9816 Email – richard@lonquist.com William H. George, P.E. – Principal Engineer / Project Manager <ul style="list-style-type: none"> Telephone – (512) 787-7478 Fax – (512) 732-9816 Email – will@lonquist.com Greg Ashcraft – Sr. Drilling, Workover and Completions Consultant <ul style="list-style-type: none"> Telephone – (512) 663-3231 Email – greg@lonquist.com Andy Mabe – Site Safety Supervisor <ul style="list-style-type: none"> Telephone – (281) 414-2116 Email – amabe@lonquistrms.com 						
Reporting Information <p>Daily Reports – Email or Fax</p> <ul style="list-style-type: none"> Sam Flessner Will George <p>Final Reports – Email and Hard Copy</p> <ul style="list-style-type: none"> Marathon Petroleum Company LP New Mexico Oil Conservation Division Lonquist & Company, LLC <p>Final Reports to include:</p> <ul style="list-style-type: none"> Daily Reports As-Built Schematics Workover/Completion Report MIT Report Well Logs Photos 						
PREPARED BY	DATE	APPROVED BY	DATE	CLIENT APPROVAL	DATE	Client Signature
WHG	1/14/2021					


		WORKOVER		Project No.: F1882		
				Date: March 2021		
		Marathon Petroleum Company LP State LPG Well No. 2 Casing Patch Installation		Page: 1 of 12		
Well: Well No. 2	State: New Mexico	County: Lea	Field: Langlie Mattix			
Well API#: 30-025-35955	Operator: Marathon	Location: Jal, NM	Status: Active Storage			
INTRODUCTION: Marathon Petroleum Company LP (MPC) contracted Lonquist Field Service (LFS) to complete a workover and MIT on Well No. 2 at their facility near Jal, New Mexico. A casing leak was found from 365' to 370' in the 5-1/2" cemented liner. This procedure outlines installation of a casing patch to repair the wellbore. Following completion of the workover, a nitrogen/brine mechanical integrity test will be performed to evaluate cavern integrity. The MIT procedure is submitted under separate cover and will be refined based on information collected during the workover. Additional information for the workover of Well No. 2 is included or referenced in this document. The additional information includes: <ul style="list-style-type: none"> • Contact Information • Vendor List • Wellhead Schematic • Wellbore Schematic • Historic Sonar Survey • Casing Patch Running Procedure • Explosive Safety Checklist 						
REGULATORY INFORMATION: Well No. 2 is regulated by the New Mexico Oil Conservation Division (NMOCD). Final Workover and MIT reports will be submitted to MPC and the NMOCD within 30 days of completion in the field. Oil Conservation Division – Division 1 1625 N. French Drive Hobbs, NM 88240 <ul style="list-style-type: none"> • Kerry Fortner – Compliance <ul style="list-style-type: none"> ○ Office – (575) 393-6161 ext. 120 ○ Mobile – (575) 263-6633 ○ Email - kerry.fortner@state.nm.us 						
SAFETY INFORMATION: LFS believes that all accidents and incidents are preventable. Our corporate goal is to have zero incidents, accidents, or near misses. To further our commitment to safety, LFS has staffed a Safety Director, whose sole purpose is to identify and mediate possible safety concerns and to be a resource for advice on such safety issues. He will be involved in work safety plans, managing JSAs, and offering oversight on our daily safety meeting program. We require that all of our employees and subcontractors accept that philosophy and uphold the standards of LFS. Our field supervisors are well-control certified, with both site specific and industry required safety qualifications related to new well drilling and well workovers. LFS supervisors are responsible to complete pre-job meetings with the contractors and clients, obtain daily work permits, complete JSAs, safety meetings, review Emergency Response Plans, identify any unsafe practices or potential hazards, and implement corrective actions to minimize employee exposure. LFS implements a site specific safety plan that defines the scope of work and identifies the appropriate safety standards and responsibilities for applicable parties for each project performed. LFS will implement a complete HSE plan for all phases of the operation. Our goal is always to ensure compliance with all client needs, as well as all local, State, and Federal safety and						
PREPARED BY	DATE	APPROVED BY	DATE	CLIENT APPROVAL	DATE	Client Signature
WHG	3/5/2021					

		<h1 style="text-align: center;">WORKOVER</h1>		Project No.: F1882		
				Date: March 2021		
		Marathon Petroleum Company LP State LPG Well No. 2 Casing Patch Installation		Page: 2 of 12		
Well: Well No. 2	State: New Mexico	County: Lea	Field: Langlie Mattix			
Well API#: 30-025-35955	Operator: Marathon	Location: Jal, NM	Status: Active Storage			
<p>environmental regulations.</p> <p>Well site safety meetings will be conducted at the beginning of each day and at the beginning of critical operations by the LFS supervisor prior to commencing any well work. All contractors involved during the day or critical operations will be required to attend the safety meeting, and all will be required to participate in the JSA process.</p> <p>In order to protect personnel from the novel Coronavirus (COVID-19) and maintain continuity of operations, LFS has issued certain guidelines for our field personnel and personnel who visit site locations as part of their responsibilities. We understand not all situations are the same and in circumstances not outlined in the attached Health and Safety Manual personnel should contact their immediate supervisor for additional guidance.</p> <p>The following protocols will be addressed daily:</p> <ul style="list-style-type: none"> • Location access limited to essential personnel only • Body Temperature Surveys • Review of hygiene and wellness • Review travel and contact expectations • Review safety phone numbers and expectations • Update all stakeholders of work or policy changes <p>The following safety gear and personal protective equipment are required:</p> <ul style="list-style-type: none"> • Hard Hat • Safety Glasses • Fire Retardant Coveralls • Safety Shoes w/Ankle Support – Leather or Rubber • Gloves • Fall protection required – 4' or above • Any additional required safety equipment • Daily Safety Meeting • JSA Form – Completed Daily <p>Additional safety and housekeeping items include:</p> <ul style="list-style-type: none"> • All personnel will be required to complete the site specific safety orientation required by MPC • Zero tolerance for any fluid release • Spills and releases to be reported to LFS and MPC • Any Injuries and Near Misses are to be reported and investigated to/by LFS and MPC • Hot work will require a hot work permit issued by MPC • Vehicles to have company placards or logos • Good housekeeping standards 						
PREPARED BY	DATE	APPROVED BY	DATE	CLIENT APPROVAL	DATE	Client Signature
WHG	3/5/2021					

		WORKOVER		Project No.: F1882		
				Date: March 2021		
		Marathon Petroleum Company LP State LPG Well No. 2 Casing Patch Installation		Page: 3 of 12		
Well: Well No. 2		State: New Mexico		County: Lea		Field: Langlie Mattix
Well API#: 30-025-35955		Operator: Marathon		Location: Jal, NM		Status: Active Storage
WORK PLAN: Daily work activities will commence after all permits have been acquired and daily safety meetings have been completed. MPC will take the well out of service prior to mobilizing equipment.						
Well Preparation <ol style="list-style-type: none"> 1. MPC will empty the cavern of stored product and flare any residual product prior to mobilization of equipment 2. Survey and prepare well location for service equipment 3. Rig Anchors <ol style="list-style-type: none"> a. Existing rig anchors on all 4 cavern locations will be pull tested to 20,000 lbs prior to mobilization b. Install and test new/additional rig anchors as necessary c. Complete 811 call at least 48 hours in advance 4. Remove all surface equipment, instrumentation and piping <ol style="list-style-type: none"> a. Brine and product flowlines and miscellaneous equipment b. Remove fencing, barriers and scaffolding c. Valves on piping to be locked out and isolated prior to removing equipment 						
Workover <ol style="list-style-type: none"> 5. Move in and rig up workover rig and equipment <ol style="list-style-type: none"> a. Workover Rig Package <ol style="list-style-type: none"> i. Fluid Pump ii. Tank iii. Flow Equipment iv. Hydraulic Catwalk v. Pipe Racks vi. Power Swivel b. BOP Package <ol style="list-style-type: none"> i. 7-1/16" 5M Annular ii. 7-1/16" 5M x 7-1/16" 3M DSA iii. 7-1/16" 5M x 11" 3M DSA iv. Diesel Powered Accumulator v. Steel Flex Hoses 6. Confirm zero wellhead pressure <ol style="list-style-type: none"> a. Circulate well with brine to ensure the cavern in brine full 7. Nipple down wellhead to 7-1/16" 3M product casing spool <ol style="list-style-type: none"> a. All wellhead equipment to be inspected and refurbished/replaced as necessary b. All wellhead bolts and gaskets to be replaced with Teflon coated bolts and stainless steel gaskets 8. Nipple up 7-1/16" 5M annular BOP and DSA on the product casing spool flange <ol style="list-style-type: none"> a. Function test BOP 9. Rig up casing spear and grapple for hanging string 10. Spear, pull and laydown hanging string <ol style="list-style-type: none"> a. 3-1/2", 12.95 lb/ft, PH-6 11. Tally, visually inspect and prepare tubing for storage <ol style="list-style-type: none"> a. Clean and dope threads b. Install thread protectors 12. Pick up 2-7/8" work string 						
PREPARED BY	DATE	APPROVED BY	DATE	CLIENT APPROVAL	DATE	Client Signature
WHG	3/5/2021					

		WORKOVER		Project No.: F1882			
				Date: March 2021			
		Marathon Petroleum Company LP State LPG Well No. 2 Casing Patch Installation		Page: 4 of 12			
Well: Well No. 2		State: New Mexico		County: Lea		Field: Langlie Mattix	
Well API#: 30-025-35955		Operator: Marathon		Location: Jal, NM		Status: Active Storage	
<p>13. Run cleanout/drift BHA to liner shoe and POOH</p> <ol style="list-style-type: none"> Rotate through liner setting depths with power swivel Drop drain sub ball and pressure up to activation pressure to flex the work string POOH <p>14. MIRU equipment to run and set Casing patch</p> <ol style="list-style-type: none"> Casing Crew <ol style="list-style-type: none"> Equipment and handling tools for 4-1/4" casing patch Torque Turn Equipment <ol style="list-style-type: none"> Equipment and handling tools for 4-1/4" casing patch Pump Truck <ol style="list-style-type: none"> Capable of 6,000 psi Pump as slow as 1/2 bpm High pressure relief device/valves High pressure pump screens <p>15. MU Running Tool and Casing patch per attached Casing Patch Procedure</p> <ol style="list-style-type: none"> Torque Turn each connection <ol style="list-style-type: none"> Record each connection – provide digital report <p>16. RIH to 1,645' (10' above 5-1/2" liner shoe)</p> <p>17. Run inner string BHA per attached Mohawk Procedure</p> <p>18. Set Casing patch from Surface – 1,645' per attached Casing Patch Procedure</p> <ol style="list-style-type: none"> Circulate with Reverse Unit to close valve for hydraulic expansion and set lower seal <ol style="list-style-type: none"> Maximum expected rate – 3 bbl/min Maximum Pressure – 6,000 psi Expand by pulling through the Casing patch <ol style="list-style-type: none"> Maximum expected overpull – 80k Pull out of Casing patch and POOH <p>19. Run milling BHA to Casing patch shoe</p> <p>20. Pressure test liner to 1,000 psi for 30 minutes on chart</p> <p>21. Mill shoe per attached Mohawk Procedure and POOH</p> <p>22. Offload and tally new hanging string</p> <ol style="list-style-type: none"> Options <ol style="list-style-type: none"> 3-1/2", 9.3 lb/ft, J-55, FL4S 3-1/2", 9.3 lb/ft, J-55, Hydril 511 2-7/8", 7.9 lb/ft, P-110, PH6 <p>23. Rig up casing crew, torque turn equipment and external connection pressure testing equipment</p> <p>24. Make up tubing installation BHA</p> <ol style="list-style-type: none"> Crossover, pump off sub, crossover, 2-7/8" motor, 4" bit <p>25. Run 3-1/2" hanging string to cavern TD</p> <ol style="list-style-type: none"> Torque Turn each connection to optimum torque Externally pressure test each connection to 1,500 psi for 60 seconds <ol style="list-style-type: none"> Confirm 80% of collapse rating is not exceeded Check with Engineer for final setting depth Once the bit enters open hole, slowly run string in hole At first sign of weight loss, pick up string, slowly run string in hole drilling with motor Minimize weight on bit <p>26. Run 3-1/2" hanging string to TD, space out and land tubing hanger</p> <p>27. Nipple down BOP</p>							
PREPARED BY	DATE	APPROVED BY	DATE	CLIENT APPROVAL	DATE	Client Signature	
WHG	3/5/2021						

		<h1 style="text-align: center;">WORKOVER</h1>		Project No.: F1882			
				Date: March 2021			
		Marathon Petroleum Company LP State LPG Well No. 2 Casing Patch Installation		Page: 5 of 12			
Well: Well No. 2		State: New Mexico		County: Lea		Field: Langlie Mattix	
Well API#: 30-025-35955		Operator: Marathon		Location: Jal, NM		Status: Active Storage	
<p>28. Nipple up refurbished/new wellhead equipment and valves</p> <p style="margin-left: 20px;">a. Energize P-seals and pressure test tubing hanger void to 3,000 psi for 15 minutes on chart</p> <p>29. Drop bit sub ball and pump off tubing installation BHA</p> <p>30. Rig up wireline equipment</p> <p style="margin-left: 20px;">a. Gauge run to tag TD</p> <p style="margin-left: 20px;">b. Perforate weep hole 1' above end of hanging string</p> <p style="margin-left: 40px;">i. Explosive Safety Checklist must be followed at all times (attached)</p> <p>31. Confirm circulation and pre-pressure cavern to calculated MIT pressure</p> <p style="margin-left: 20px;">a. Circulate at least 40 bbls of brine at 2 bpm</p> <p style="margin-left: 20px;">b. MIT pre-pressure is 50 psi</p> <p>32. Rig down workover rig and move off location</p> <p>33. Complete Cavern MIT (submitted under separate cover)</p> <p style="text-align: center;">Contact Information</p> <p>Well Owner – Marathon Petroleum Company LP</p> <p style="margin-left: 40px;">Marathon Petroleum Logistics Services LLC 803 N 300 W Salt Lake City, UT 84103</p> <ul style="list-style-type: none"> • Sam Flessner – Owner's Representative <ul style="list-style-type: none"> ○ Telephone – (419) 348-4269 ○ Email – siflessner@marathonpetroleum.com <p>New Mexico Oil Conservation Division</p> <p style="margin-left: 40px;">Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505</p> <ul style="list-style-type: none"> • Daniel Sanchez – Enforcement <ul style="list-style-type: none"> ○ Telephone – (505) 476-3493 ○ Email - daniel.sanchez@state.nm.us <p style="margin-left: 40px;">Oil Conservation Division – Division 1 1625 N. French Drive Hobbs, NM 88240</p> <ul style="list-style-type: none"> • Kerry Fortner – Compliance <ul style="list-style-type: none"> ○ Office – (575) 393-6161 ext. 120 ○ Mobile – (575) 263-6633 ○ Email - kerry.fortner@state.nm.us 							
PREPARED BY	DATE	APPROVED BY	DATE	CLIENT APPROVAL	DATE	Client Signature	
WHG	3/5/2021						

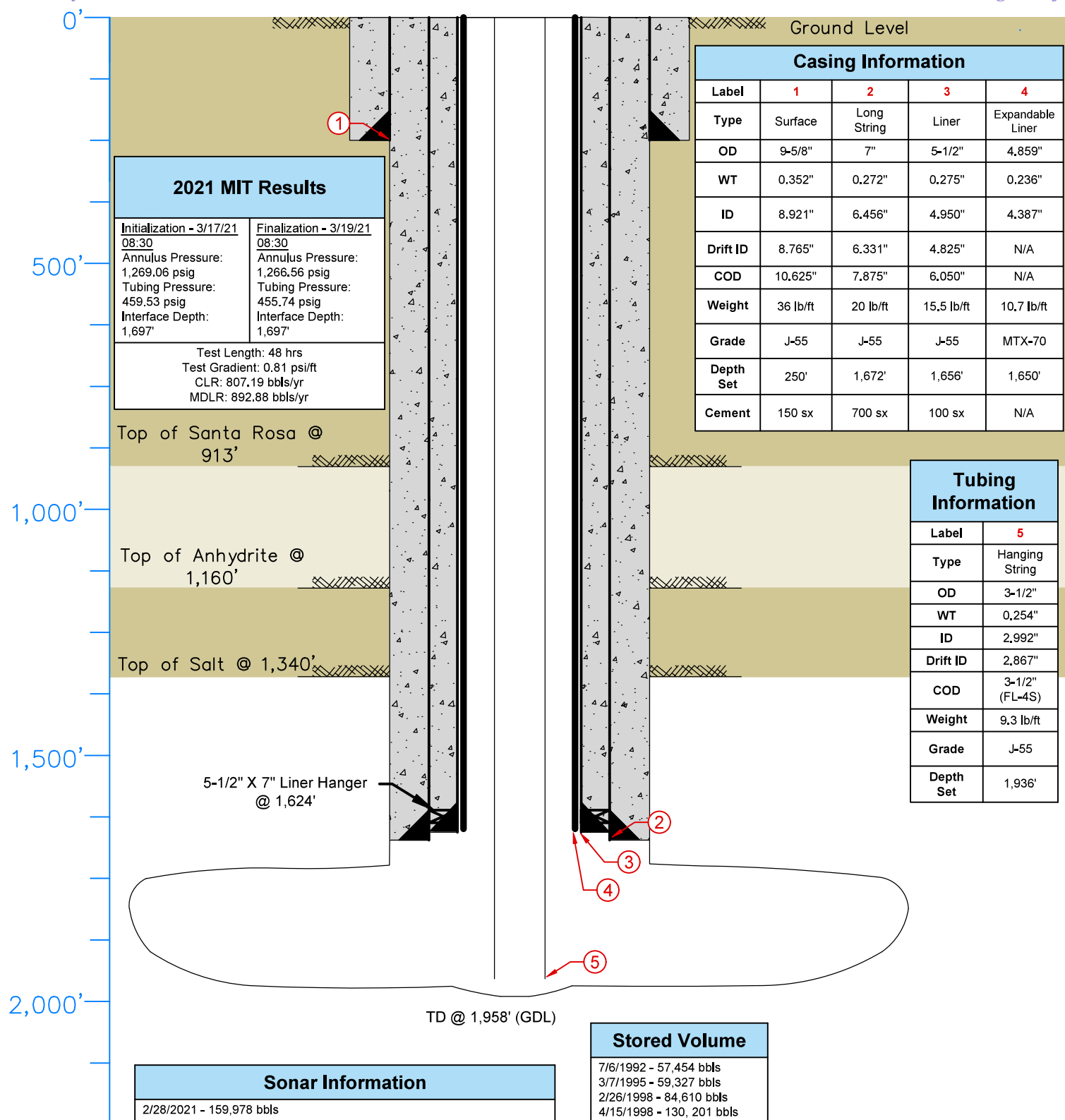
		WORKOVER		Project No.: F1882		
				Date: March 2021		
		Marathon Petroleum Company LP State LPG Well No. 2 Casing Patch Installation		Page: 6 of 12		
Well: Well No. 2	State: New Mexico	County: Lea	Field: Langlie Mattix			
Well API#: 30-025-35955	Operator: Marathon	Location: Jal, NM	Status: Active Storage			
Engineering Consultants						
<p>Lonquist Field Service, LLC 1415 Louisiana St., Suite 3800 Houston, Texas 77002</p> <ul style="list-style-type: none"> Richard R. Lonquist, P.E. – Chairman <ul style="list-style-type: none"> Telephone – (512) 732-9812 Fax – (512) 732-9816 Email – richard@lonquist.com William H. George, P.E. – Principal Engineer / Project Manager <ul style="list-style-type: none"> Telephone – (512) 787-7478 Fax – (512) 732-9816 Email – will@lonquist.com Greg Ashcraft – Sr. Drilling, Workover and Completions Consultant <ul style="list-style-type: none"> Telephone – (512) 663-3231 Email – greg@lonquist.com Terry Smith – Site Safety Supervisor <ul style="list-style-type: none"> Telephone – (337) 278-7894 Email – tsmith@lonquistrms.com 						
Reporting Information						
Daily Reports – Email or Fax <ul style="list-style-type: none"> Sam Flessner Jim Tomlinson Will George 						
Final Reports – Email and Hard Copy <ul style="list-style-type: none"> Marathon Petroleum Company LP New Mexico Oil Conservation Division Lonquist & Company, LLC 						
Final Reports to include: <ul style="list-style-type: none"> Daily Reports As-Built Schematics Workover/Completion Report MIT Report Well Logs Photos 						
PREPARED BY	DATE	APPROVED BY	DATE	CLIENT APPROVAL	DATE	Client Signature
WHG	3/5/2021					

*Workover Report – Marathon Petroleum Company LP
State LPG Well No. 2*

Appendix B – LFS Daily Activity Reports

Workover Report – Marathon Petroleum Company LP
State LPG Well No. 2

Final As-Built Schematics

**LONQUIST****FIELD SERVICE**HOUSTON | CALGARY
AUSTIN | WICHITA | DENVER

Texas License F-9147

12912 Hill Country Blvd., Suite F-200
Austin, Texas 78738
Tel: 512.732.9812
Fax: 512.732.9816

Marathon Petroleum Company

Country: USA

Survey/STR: M-32-23S-37E

API No.: 30-025-35955

Serial No.:

Drawn: NJP

Rev No:

State LPG Well No. 2

State/Province: New Mexico

Site: Jal, NM

Field: Langlie Mattix

Project No:

Reviewed: WHG

Notes:

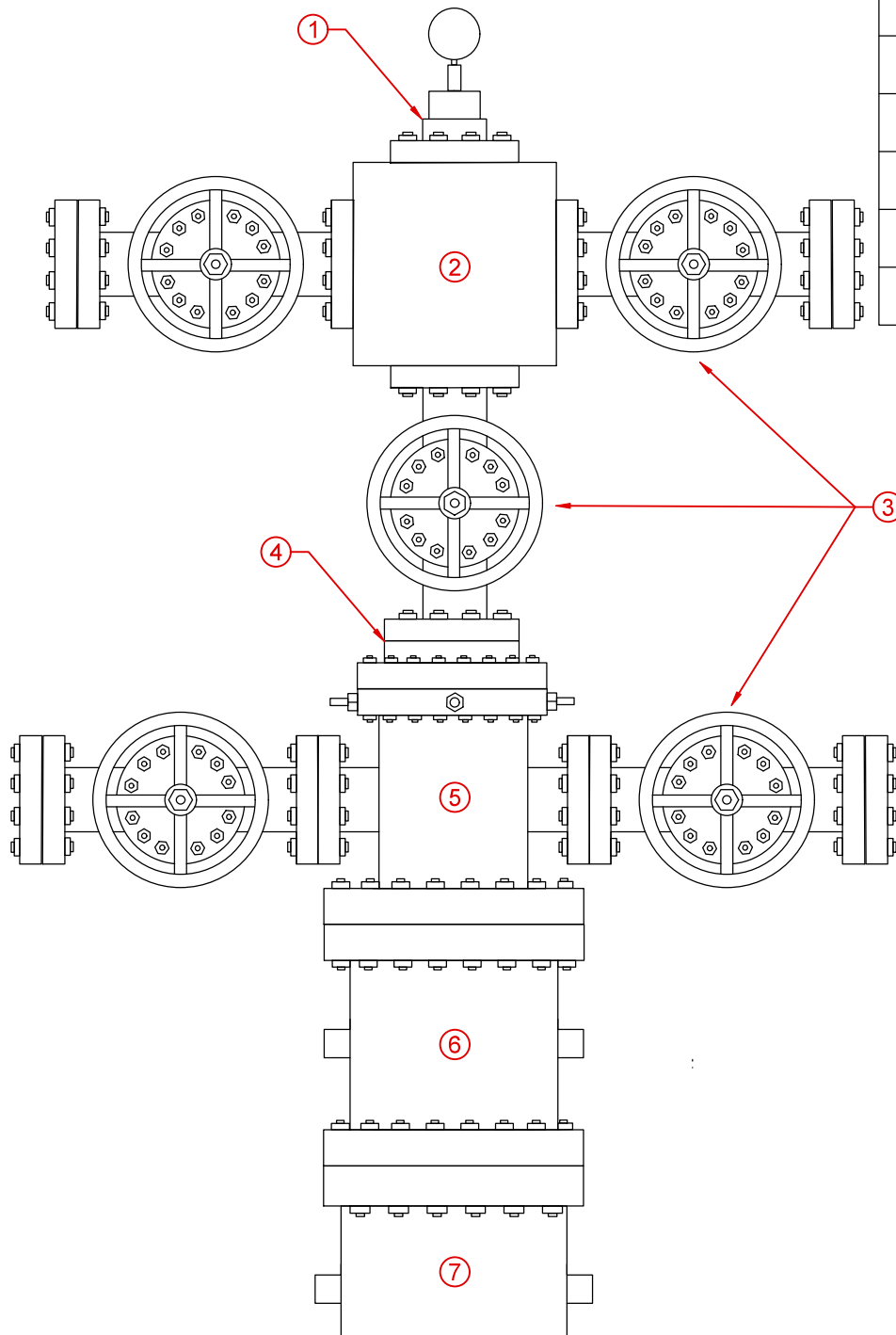
County/Parish: Lea

Status: Active Storage

Ground Elevation: 3,303'

Date: 3/23/21

Approved: WHG



Wellhead Detail

1	3-1/8" 3M Threaded with 3-1/2" EUE
2	3-1/8" 3M x 3-1/8" 3M Flow Cross
3	3-1/8" 3M Gate Valves
4	3-1/8 3M x 7-1/16" 3M DSA
5	7-1/16" 3M x 11" 3M Product Spool w/ 3-1/8" 3M Flanged Outlets
6	11" 3M x 11" 3M Casing Spool w/ 2" Threaded Outlets
7	11" 3M SOW w/ 2" Threaded Outlets

LONQUIST

FIELD SERVICE

AUSTIN WICHITA
HOUSTON CALGARY

TX License F-9147

12912 Hill Country Blvd., Suite F-200
Austin, Texas 78738
Tel: 512-732-9812
Fax: 512-732-9816

Marathon Petroleum Company

Country: USA

Location:

API No: 30-025-35955

State ID No:

Drawn: WHG

Rev No:

State LPG Well No. 2
Wellhead Schematic

State/Province: New Mexico

Site: Jal, NM

Field:

Project No:

Reviewed:

Notes: Not to scale. Reference only.

County/Parish: Lea

Survey/STR:

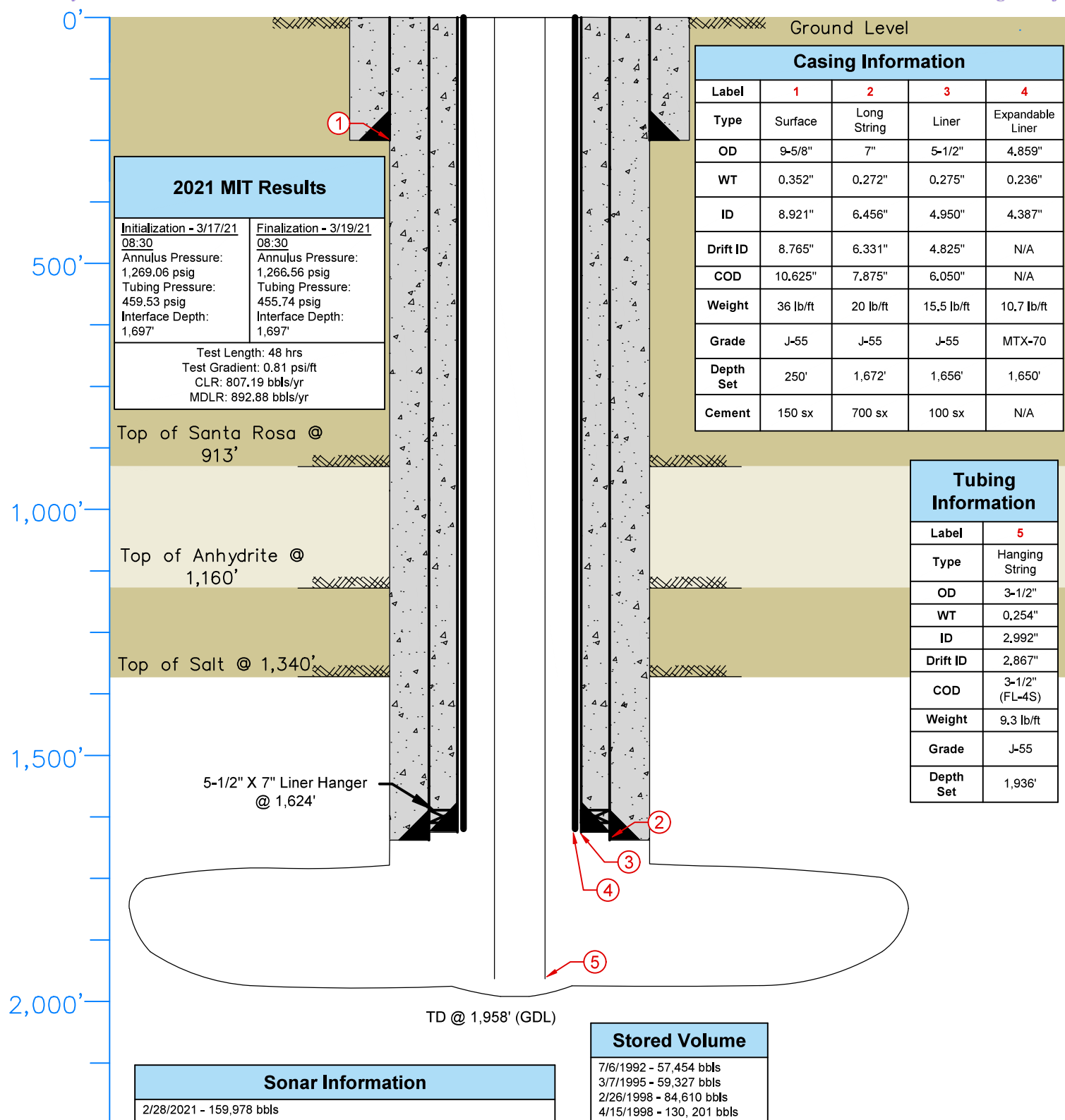
Well Type/Status: Active Storage

Date: 1/19/21

Approved: WHG

*Workover Report – Marathon Petroleum Company LP
State LPG Well No. 2*

Final As-Built Schematics

**LONQUIST****FIELD SERVICE**HOUSTON | CALGARY
AUSTIN | WICHITA | DENVER

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Fax: 512.732.9816

Marathon Petroleum Company

Country: USA

Survey/STR: M-32-23S-37E

API No.: 30-025-35955

Serial No.:

Drawn: NJP

Rev No:

State LPG Well No. 2

State/Province: New Mexico

Site: Jal, NM

Field: Langlie Mattix

Project No:

Reviewed: WHG

Notes:

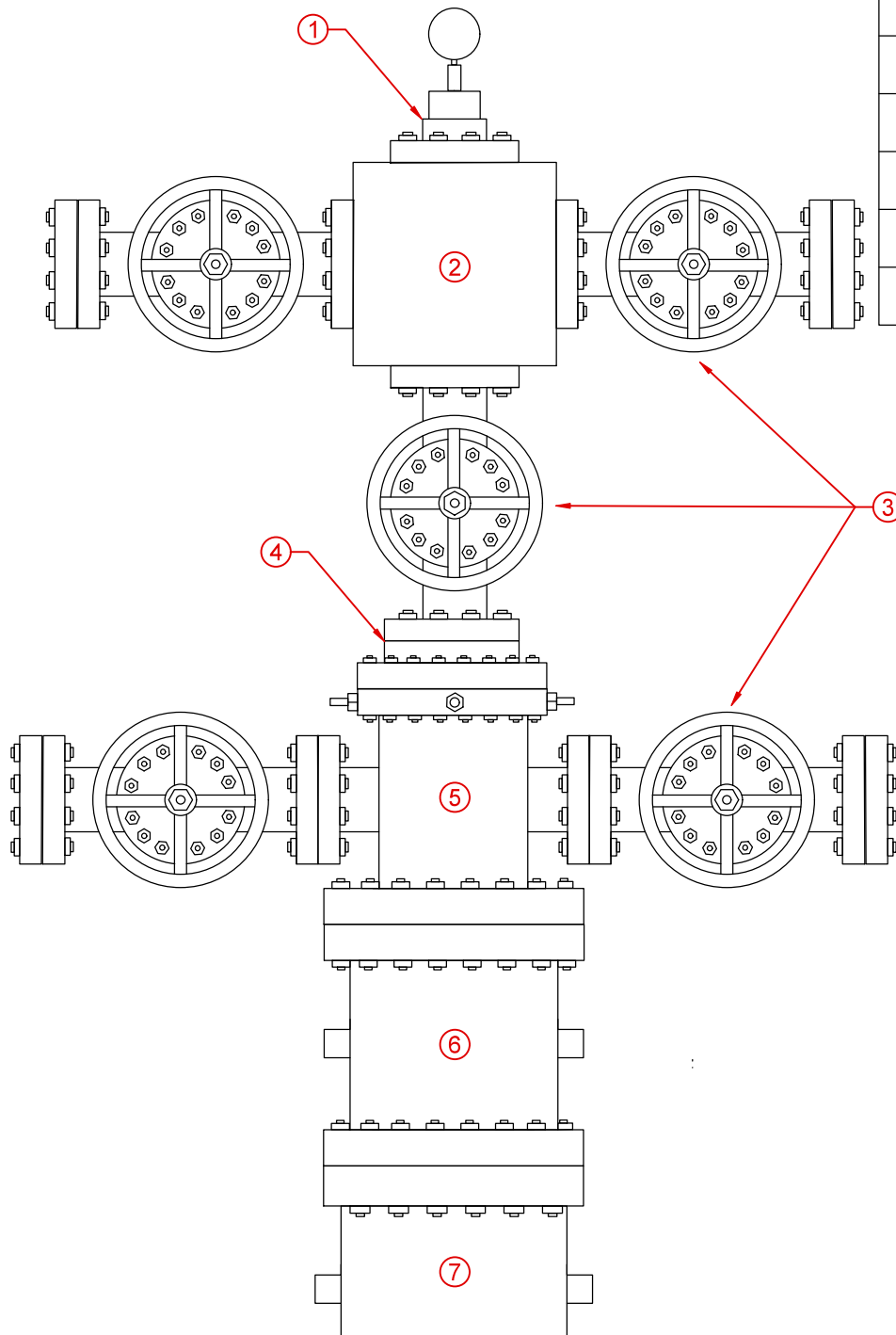
County/Parish: Lea

Status: Active Storage

Ground Elevation: 3,303'

Date: 3/23/21

Approved: WHG



Wellhead Detail

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LONQUIST

FIELD SERVICE

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TX License F-9147

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Austin, Texas 78738
Tel: 512-732-9812
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Marathon Petroleum Company

Country: USA

Location:

API No: 30-025-35955

State ID No:

Drawn: WHG

Rev No:

State LPG Well No. 2
Wellhead Schematic

State/Province: New Mexico

Site: Jal, NM

Field:

Project No:

Reviewed:

Notes: Not to scale. Reference only.

County/Parish: Lea

Survey/STR:

Well Type/Status: Active Storage

Date: 1/19/21

Approved: WHG

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 32836

COMMENTS

Operator: WESTERN REFINING COMPANY, L.P. 6500 Trowbridge Drive El Paso, TX 799053402	OGRID: 248440
	Action Number: 32836
	Action Type: [C-103] NOI Workover (C-103G)

COMMENTS

Created By	Comment	Comment Date
cchavez	LPG Storage Well No. 2 Nitrogen Interface Test Results Final Report & Well Workover.	6/21/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Rd., Aztec, NM 87410
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State of New Mexico
Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

CONDITIONS

Action 32836

CONDITIONS

Operator: WESTERN REFINING COMPANY, L.P. 6500 Trowbridge Drive El Paso, TX 799053402	OGRID: 248440
	Action Number: 32836
	Action Type: [C-103] NOI Workover (C-103G)

CONDITIONS

Created By	Condition	Condition Date
cchavez	None	6/21/2021