

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 ResourcesForm C-103
Revised July 18, 2013OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.

30-025-35954

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

State LPG Storage Well

8. Well Number #001

9. OGRID Number

248440

10. Pool name or Wildcat

Salado

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.)

1. Type of Well: Oil Well ☐ Gas Well ☐ Other ☐ LPG Storage

2. Name of Operator

Western Refining Company, LP

3. Address of Operator

19100 Ridgewood Parkway, San Antonio, TX 78259

4. Well Location

Unit Letter M : 450 feet from the South line and 780 feet from the North lineSection 32 Township 23S Range 37E NMPM Lea County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒TEMPORARILY ABANDON ☐ CHANGE PLANS ☐PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐DOWNHOLE COMMINGLE ☐CLOSED-LOOP SYSTEM ☐OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐ P AND A ☐CASING/CEMENT JOB ☐OTHER: ☐

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: Closure Plan for LPG Storage Well #1

Date Work Begins: To Be Determined

Date Work Completed: To Be Determined

Marathon intends to execute the provided well closure plan for State LPG Storage Cavern #001. Upon successful execution of the closure plan, Marathon intends to submit closure plans for Caverns #002, #003, and #004.

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 February 11, 2024Type or print name Jessica O'Brien E-mail address: jobrien@marathonpetroleum.com PHONE: (210) 626-7774**For State Use Only**

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

		<h2 style="text-align: center;">P&A Procedure</h2>		Project No: F2377		
				Date: January 2024		
		Western Refining Company, LP State LPG Storage Well No. 1		Page: 1 of 10		
Property ID: 303729	State: New Mexico	County: Lea		Field: Langlie Mattix		
API: 30-025-35954	Location: M-32-23S-37E, 450 FSL, 780 FWL	Coordinates: NAD83 32.2547874, -103.1909103		Status: Offline LPG Storage		
INTRODUCTION:						
<p>Western Refining Company, LP, a subsidiary of Marathon Petroleum Company LP ("MPC"), plans to file a form C-103 with the New Mexico Oil Conservation Division ("NMOCD") as a notice of intention ("NOI") to plug and abandon ("P&A") one LPG storage well at the Jal State LPG storage facility in Lea County, New Mexico. Lonquist Field Service ("LFS") was contracted to prepare a proposed plan to P&A this well. This particular document pertains to the State LPG Storage Well No. 1 (30-025-35954) P&A procedure. Below is a summary of the final plug and abandonment operation:</p>						
<ul style="list-style-type: none"> • MIRU coiled tubing unit to drillout top two CIBPs and regain tubing ID. • MIRU flowback equipment in preparation for product circulation. • Shoot circulation holes in tubing below the casing shoe and circulate the remaining product out of the wellbore. • Ensure the cavern is filled with brine, all product has been removed, and well has reached geostatic equilibrium. • MIRU WOR. • Wireline cut tubing and pull hanger. • Engage/latch tubing stump. • Free point tubing string. • Make 2nd wireline cut on tubing and remove as much tubing as possible. <ul style="list-style-type: none"> ◦ <i>Contingency: fish remaining tubing (washover and cut per NMOCD Guidance).</i> • MU casing scraper and run to casing shoe. • Set cement retainer on workstring. • RU cementers and pump class A cement plug across the liner shoe and the bottommost casing shoe. • WOC, tag and test retainer. • Spot balanced cement plug(s) from retainer to surface, filling the entire wellbore with cement. • WOC. • Cut casing strings and remove wellhead. • Confirm cement to surface, perform top fill job if necessary. • Weld on ½" steel plate and erect permanent marker with required well information. • Perform site closure requirements. 						
<p>The following procedure provides a detailed prognosis for the proposed P&A procedure.</p>						
PREPARED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE	Client Signature
JNC	01/31/2024	WED	02/09/2024			

		P&A Procedure		Project No: F2377	
				Date: January 2024	
		Western Refining Company, LP State LPG Storage Well No. 1		Page: 2 of 10	
Property ID: 303729	State: New Mexico	County: Lea		Field: Langlie Mattix	
API: 30-025-35954	Location: M-32-23S-37E, 450 FSL, 780 FWL	Coordinates: NAD83 32.2547874, -103.1909103		Status: Offline LPG Storage	

REGULATORY INFORMATION:

The State LPG Storage Well No. 1 is regulated by the NMOCD. The NMOCD will be notified, and all activities approved prior to commencing work activities. Final P&A reports will be submitted to MPC and the NMOCD within 30 days of completion in the field (19.15.25.11 & 19.15.7.16 NMAC).

Oil Conservation Division – Division 1
 1625 N. French Drive
 Hobbs, NM 88240

- Gilbert Cordero – Compliance
 - Office – (575) 626-0830
 - Email - Gilbert.Cordero@state.nm.us
- Kerry Fortner – Compliance
 - Office – (575) 393-6161 ext. 120
 - Mobile – (575) 263-6633
 - Email - kerry.fortner@state.nm.us

SAFETY INFORMATION – VISION STATEMENT:


Lonquist 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, Lonquist 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 Lonquist. Our field supervisors are well-control certified, with both site specific and industry required safety qualifications related to new well drilling and well workovers. Lonquist 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. Lonquist 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. Lonquist 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.

Well site safety meetings will be conducted at the beginning of each day and at the beginning of critical operations by Lonquist 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.

The following safety gear and personal protective equipment are required:

- Hard hat
- Safety glasses with side protection (shields or curvature)
- Fire retardant clothing
- Steel-toed safety shoes w/ankle support – leather or rubber
- Gloves
- Fall protection required – 4' or above

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				Page: 3 of 10			
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- Any additional required safety equipment
- Tour and Critical Operation Safety Meeting

Additional safety and housekeeping items include:

- 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

A completed and detailed site-specific safety plan will be included.

WORK PLAN:

The daily work activities will commence after all permits have been acquired and daily safety meetings have been completed. Decisions may have to be made in the field that could alter the procedure and/or result.

Plug and Abandon


Drill-out Upper CIBPs with Coil, Shoot Circulation Holes and Unload Wellbore/Cavern of Product

- Note wellhead pressures
- ND tree and MU necessary spools
- MIRU 1-1/2" coiled tubing unit ("CTU") and associated equipment
 - Function test and pressure test coil BOPE
 - Consider making up extra lubricator in the event that burn over contingency plan may need to be applied and additional BHA footage is required
- PU BHA #1:

Tool Description	OD	ID	Conn Down	Conn Up	Vendor	Length	Accum Length
Carbide Shoe w/ flutter cage	2.60"	2-1/4"	Shoe	2.5 WP	BTC	4.00	4.00
Extension	2-1/8"	-	2.5 WP	2.5 WP	BTC	8.00	12.00
Venturi	2-1/8"	-	2.5 WP	1.5" MT	BTC	2.00	14.00
Mud Motor	2-1/8"	-	1.5" MT	1.5" MT	BTC	2.00	16.00
Disconnect	2-1/8"	-	1.5" MT	1.5" MT	BTC	2.00	18.00
Dual Back Pressure Valve	2-1/8"	-	1.5" MT	1.5" MT	BTC	2.00	20.00
Coil Tubing Connector	2-1/8"	-	1.5" MT	1.5"	BTC	1.00	21.00

*The Measurements and lengths above are for Reference Only. All Lengths, O.D. and I.D. Measurements will be taken on location by FTS.

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				Page: 4 of 10			
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5. RIH, establish circulation, burn over CIBP #1 @ 160' and chase down to CIBP #2 at 210'
 - a. Note depth tagged, engage/stomp on CIBP #1, POOH and document recovery of CIBP #1
 - b. *Contingency: If retrieval of CIBP #1 is deemed improbable, a longer shoe extension will be picked up that can burn over both sets of slips on CIBP #1 and #2, allowing both plugs to fall down on top of CIBP #3 @ 1,744'*
6. PU fresh shoe and same BHA as BHA #1
7. RIH and burn over CIBP @ 210' and chase down to CIBP #3 at 1,774'
 - a. Note depth tagged, engage/stomp on CIBP #2, POOH and document recovery of CIBP #2
8. Once both uppermost CIBPs are recovered and tubing ID is regained down to lowermost CIBPs, RDMO CTU
9. MIRU flowback and circulation equipment in preparation to circulate product to surface
10. MIRU wireline unit
11. RIH and shoot circulation holes in tubing @ 1,700'
12. Establish circulation and unload the wellbore/cavern of any residual product
13. Once product has been removed, ensure the cavern is filled with brine, the well has reached geostatic equilibrium
 - a. The cavern will be shut in and wellbore pressure will be monitored to ensure that geostatic equilibrium has been reached prior to continuing plugging operations. Findings will be communicated with appropriate parties including the NMOCD.

Wireline Cut Tubing and Pull Hanger


14. MIRU Workover Rig and equipment
 - a. Rig beam
 - b. Rig tank
 - c. Rig pump
 - d. Dog house
 - e. Pipe racks
 - f. Workstring
 - g. BOP
15. ND tree
16. NU BOP
 - a. Function and pressure test BOP
17. PU fishing BHA #1:

Tool Description	OD	ID	Conn Down	Conn Up	Vendor	Length	Accum Length
Overshot - Series 150	5-3/4"	-	cut lip	3-1/2" IF	BTC	4.00	4.00
Pup Joint	4.875"	2.563"	3-1/2" IF	3-1/2" IF	BTC	8.00	12.00

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18. Engage 3-1/2" tubing stub in the wellhead with overshot
19. MIRU WL
20. Make low flare cut as shallow as possible
 - a. Cut below 3-1/2" collar and within 100' of surface
 - b. Ensure lug nuts are not engaged on tubing head/hanger
21. Per fisherman's direction pull tubing hanger from the bowl and LD cut 3-1/2" tubing

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				Page: 5 of 10			
Property ID: 303729		State: New Mexico		County: Lea		Field: Langlie Mattix	
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Fish Tubing Neck, Perform Freepoint, Recover Free Tubing, and Make Casing Scraper Run

22. PU fishing BHA #2:

Tool Description	OD	ID	Conn Down	Conn Up	Vendor	Length	Accum Length
Overshot - Series 150	4-11/16"	-	cut lip	2-7/8" IF	BTC	4.00	4.00
Crossover to workstring	3.915"	2.920"	2-7/8" IF	??	BTC	2.00	6.00

*The Measurements and lengths above are for Reference Only. All Lengths, O.D. and I.D. Measurements will be taken on location by FTS.

23. RIH to top of 3-1/2" tubing and engage fish and prep for WL work

24. RIH with WL and perform a freepoint, POOH

25. RIH with WL and perform low flare cut on 3-1/2" tubing below the long string shoe @ 1,521'

a. Make cut 1-1/2 joints above stuck point

b. *Contingency: if this cut is above the 5-1/2" liner shoe at 1,480' attempt(s) will be made to recover remaining tubing until the top of fish ("TOF") is below the shoe. Additional contingency laid out in steps #27(c) – 30 is possible if an unexpected high cut is the case*

26. POOH and RDMO WL

27. POOH with fishing BHA #2 and recover 3-1/2" tubing

a. Add brine to wellbore as needed during POOH to ensure hole is full

b. Document recovery

c. *Contingency: document the condition of tubing cut for BHA #3 optimization*

28. *Contingency: PU fishing BHA #3:*

Tool Description	OD	ID	Conn Down	Conn Up	Vendor	Length	Accum Length
Overshot - Series 150	4-11/16"	-	cut lip guide	2-3/8" IF	BTC	4.00	4.00
Bumper Sub	3-3/4"	1.5"	2-3/8" IF	2-3/8" IF	BTC	6.00	10.00
Oil Jar	3-3/4"	1.5"	2-3/8" IF	2-3/8" IF	BTC	6.00	16.00
Drill Collars	3-1/2"	1.5"	2-3/8" IF	2-3/8" IF	BTC	124.00	140.00
Accelerator Jar	3-3/4"	1.5"	2-3/8" IF	2-3/8" IF	BTC	6.00	146.00
X-Over to Workstring	3-3/4"	1.5"	2-3/8" IF	?	BTC	2.00	148.00

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29. *Contingency: Fishing ops and BHA design to vary depending on initial results*

a. *Washover/burnover and fish remaining tubing*

b. *If fishing operations reach a point where it is concluded that sufficient progress cannot be accomplished then operations will communicate with all parties and obtain guidance from the NMOCDC on how to proceed. This may included the confirmation to set the cement retainer within 50' of TOF. At which point cement volumes would be calculated to ensure that cement can be injected to fill the void from the bottom of the cement retainer to 50' below the deepest casing shoe @ 1,521'*

30. *Contingency: POOH, LD remaining tubing string*

a. *Add brine to wellbore as needed during POOH to ensure hole is full*


b. *Document recovery*


31. MU casing scraper and start RIH


32. RIH to liner shoe


a. Note any weight changes or anomalies during RIH

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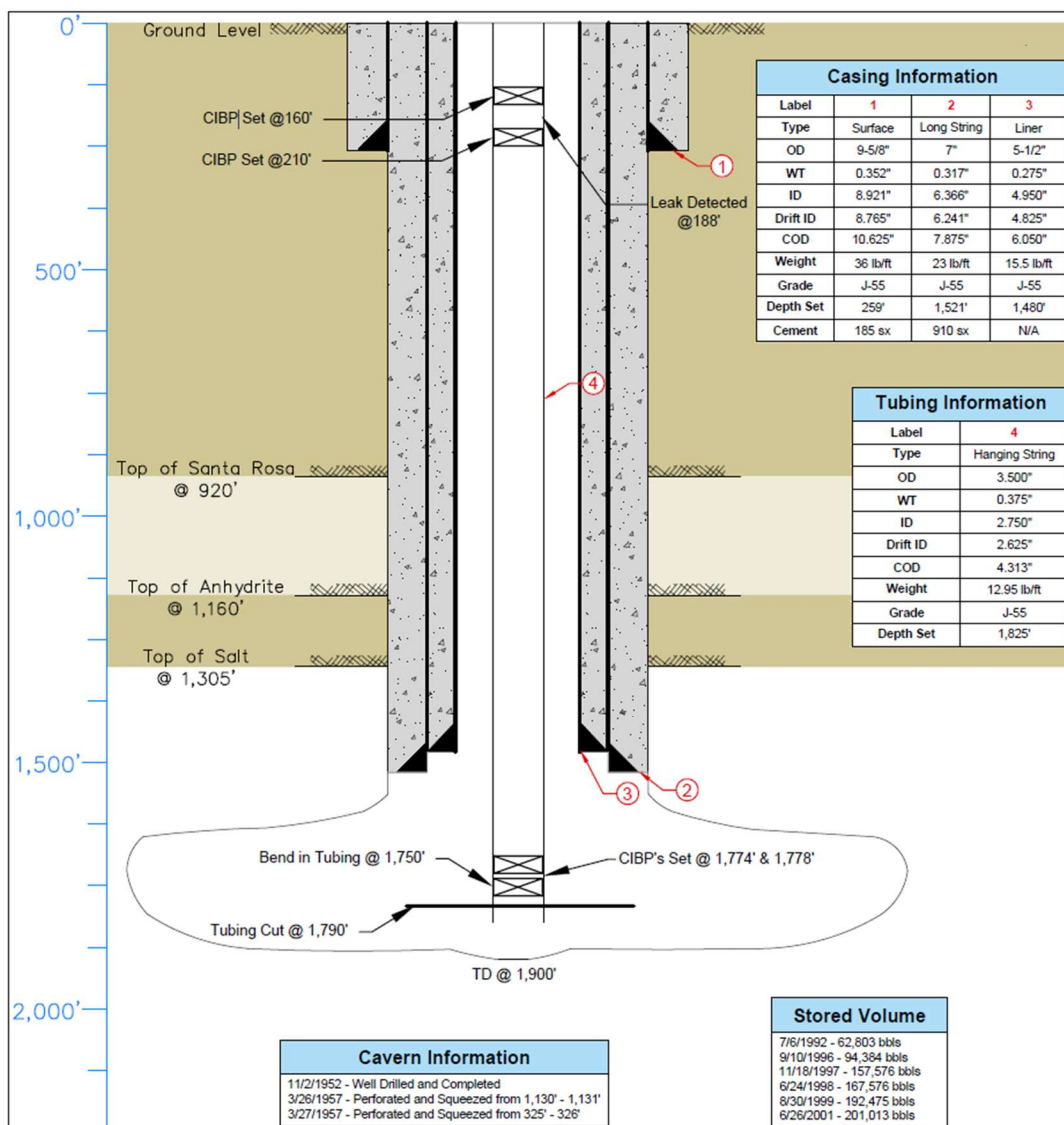
		P&A Procedure		Project No: F2377	
		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024	
				Page: 6 of 10	
Property ID: 303729		State: New Mexico		County: Lea	
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Field: Langlie Mattix					
Status: Offline LPG Storage					
<p>33. POOH with casing scraper</p> <ul style="list-style-type: none"> a. Rack back workstring in derrick b. Document condition of scraper noting any abnormal wear <p><u>Hydraulic Set Cement Retainer, Pump Cement Plugs & Test</u></p> <p>34. MU and RIH with hydraulic set cement retainer</p> <ul style="list-style-type: none"> a. Set within 50' above liner shoe (1,480') b. Note weights prior to dropping ball to engage elements <p>35. Line up surface equipment in preparation for cementing ops</p> <p>36. Establish injection rate to confirm ability to pump cement below retainer</p> <ul style="list-style-type: none"> a. Note pressures and volume pumped <p>37. MIRU cementing company</p> <p>38. Pump class A cement to place cement plug #1 from 50' below the deepest casing shoe to the cement retainer</p> <ul style="list-style-type: none"> a. Note volume and pressures during pumping operation <p>39. Sting out of retainer, POOH 3 stands, reverse circulate workstring clean and POOH racking back workstring</p> <p>40. Wait on cement ("WOC") for 12 hours or as recommended by laboratory analysis</p> <p>41. RIH and tag cement retainer to confirm depth</p> <p>42. Pressure test retainer and cement plug #1 to 500 psi for 30 minutes</p> <p>43. Pump a balanced class A cement plug(s) from the cement retainer to surface</p> <ul style="list-style-type: none"> a. Plug(s) to be pumped in maximum increments per hole conditions <p>44. POOH above the calculated TOC, reverse circulate workstring clean and POOH racking back workstring</p> <ul style="list-style-type: none"> a. Racking back or LD dependent on cement test results and set up time <p>45. WOC for 12 hours or as recommended by laboratory analysis</p> <p><u>Remove Wellhead & Weld Marker</u></p> <p>46. ND BOPE</p> <p>47. Remove wellhead</p> <p>48. Fill any void remaining at surface with top off cement</p> <p>49. Cut all casing strings</p> <p>50. Weld on 1/2" steel plate and erect permanent marker that is:</p> <ul style="list-style-type: none"> a. not less than four inches in diameter set in cement and extending at least four feet above mean ground level. The operator name, lease name and well number and location, including unit letter, section, township and range, shall be welded, stamped or otherwise permanently engraved into the marker's metal (19.15.25.10 NMAC) b. The operator may use below-ground plugged and abandonment markers only with the division's written approval when an above-ground marker would interfere with agricultural endeavors. The below-ground marker shall have a steel plate welded onto the abandoned well's surface or conductor pipe and shall be at least three feet below the ground surface and of sufficient size so that all the information 19.15.16.8 NMAC requires can be stenciled into the steel or welded onto the steel plate's surface. The division may require a re-survey of the well location <p>51. RDMO all equipment</p>					
PREPARED BY		DATE		APPROVED BY	
JNC		01/31/2024		WED	
02/09/2024		Client Signature			

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Property ID: 303729	State: New Mexico	County: Lea	Field: Langlie Mattix		
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SCHEDULE <ul style="list-style-type: none"> Days 1-4: MIRU CTU, regain tubing ID, RDMO CTU Days 5-6: MIRU flowback and pumping services, shoot circulation holes Intermission: Circulate wellbore, remove product, brine full, monitor returns, shut in well and monitor until geostatic equilibrium is reached Days 7: MIRU workover rig and equipment Days 8-11: Fishing operations to pull hanging string Days 12: Casing scraper run and set cement retainer Days 13-14: Pump cement plugs Days 15: Remove wellhead, cut and cap well Days 16: RDMO all equipment 					
Reporting Information <p>Daily Reports – Email or Fax</p> <ul style="list-style-type: none"> Marathon Petroleum Company Will George Bill Deupree Jake Coker <p>Final Reports – Email and Hard Copy</p> <ul style="list-style-type: none"> Marathon Petroleum Company Lonquist & Company, LLC <p>Final Reports to include:</p> <ul style="list-style-type: none"> Daily Reports Well Schematic Well Completion Report Well Logs Photos 					
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Well Owner Western Refining Company, LP (Marathon Petroleum Company)						
Regulatory Oil Conservation Division – Division 1 1625 N. French Drive Hobbs, NM 88240 <ul style="list-style-type: none"> • Gilbert Cordero – Compliance <ul style="list-style-type: none"> ○ Office – (575) 626-0830 ○ Email - Gilbert.Cordero@state.nm.us • 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 						
Contractor Lonquist Field Service, LLC 1415 Louisiana St., Suite 3800 Houston, TX 77002 <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. – Vice President / Principal Engineer <ul style="list-style-type: none"> ○ Telephone – (512) 787-7478 ○ Fax – (512) 732-9816 ○ Email – will@lonquist.com • William (Bill) Deupree – Principal Engineer / Project Manager <ul style="list-style-type: none"> ○ Telephone – (832) 233-2191 ○ Fax – (512) 732-9816 ○ Email – bill@lonquist.com • Jake Coker – Petroleum Engineer <ul style="list-style-type: none"> ○ Telephone – (512) 940-2703 ○ Fax – (512) 732-9816 ○ Email – jake@lonquist.com 						
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				Page: 9 of 10	
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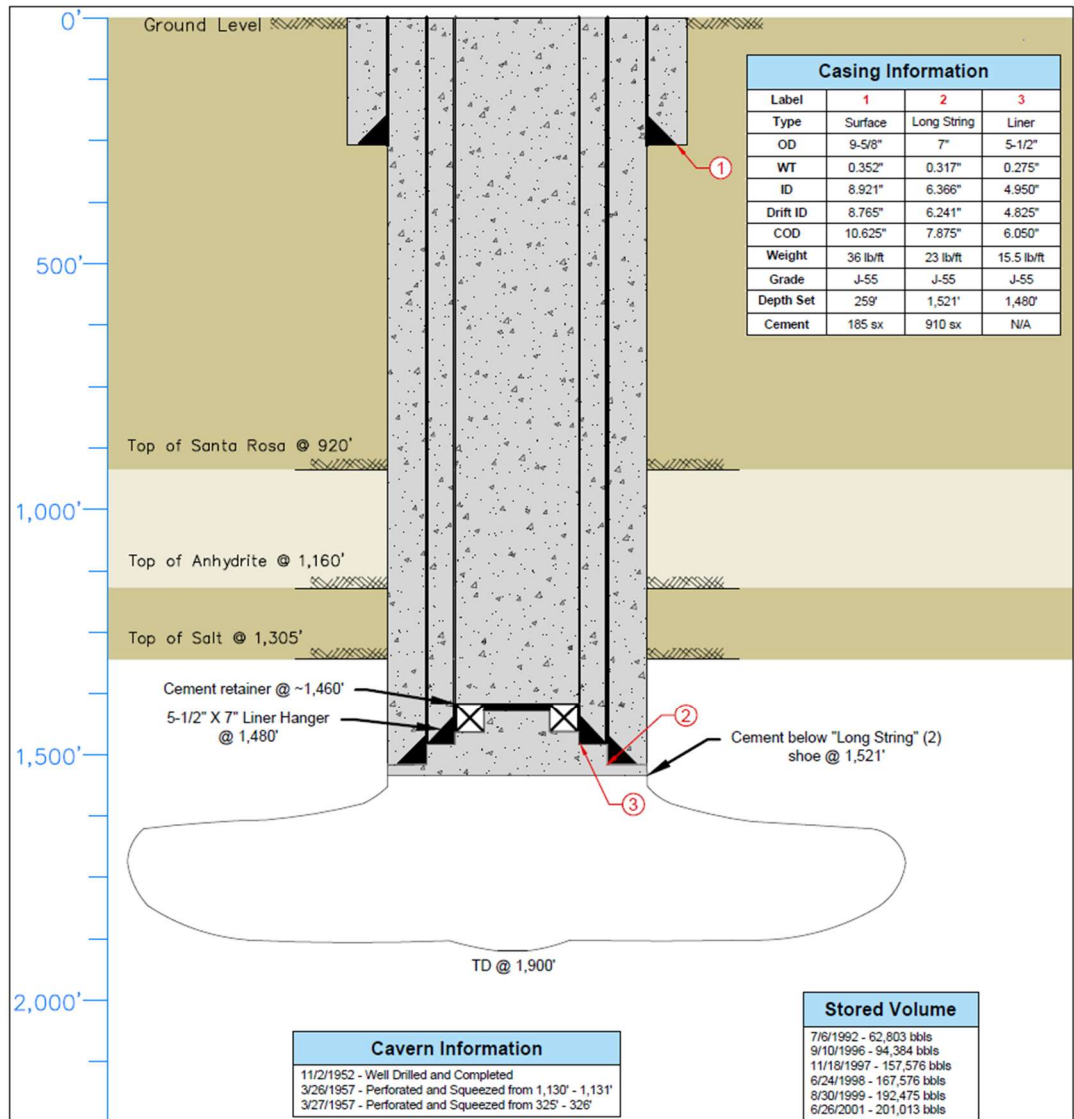
Current WBS



	Marathon Petroleum Company		State LPG Well No. 1	
	Country: USA		State/Province: New Mexico	
	Survey/STR: M-32-23S-37E		County/Parish: Lea	
	Site: Jal, NM		Status: P&A Prep	
	Ground Elevation: 3,312'			
API No.: 30-025-35954	Field: Langlie Mattix	Project No: F2377		
Property No.: 303729	Drawn: WHG	Reviewed: JNC		
Texas License F-9147	Rev No: 1	Notes:		
12912 Hill Country Blvd., Suite F-200 Austin, Texas 78738 Tel: 512.732.9812 Fax: 512.732.9816		Date: 1/19/21 (Reviewed: 2/9/2024)		
		Approved: WHG		


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LONQUIST FIELD SERVICE		P&A Procedure		Project No: F2377	
		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024	
				Page: 10 of 10	
Property ID: 303729	State: New Mexico	County: Lea		Field: Langlie Mattix	
API: 30-025-35954	Location: M-32-23S-37E, 450 FSL, 780 FWL	Coordinates: NAD83 32.2547874, -103.1909103		Status: Offline LPG Storage	

Proposed WBS

LONQUIST FIELD SERVICE 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		State LPG Well No. 1 Proposed P&A	
	Country: USA		State/Province: New Mexico	County/Parish: Lea
	Survey/STR: M-32-23S-37E		Site: Jal, NM	Current Status: P&A Prep
	API No.: 30-025-35954		Field: Langlie Mattix	Ground Elevation: 3,312'
	Property No.: 303729		Project No: F2377	Date: 02/02/2024
Drawn: JNC		Reviewed: WED	Approved: WED	
Rev No: 1		Notes:		

PREPARED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE	Client Signature
JNC	01/31/2024	WED	02/09/2024			

		P&A Procedure		Project No: F2377			
		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024			
				Page: 1 of 10			
Property ID: 303729		State: New Mexico		County: Lea		Field: Langlie Mattix	
API: 30-025-35954		Location: M-32-23S-37E, 450 FSL, 780 FWL		Coordinates: NAD83 32.2547874, -103.1909103		Status: Offline LPG Storage	


INTRODUCTION:


Western Refining Company, LP, a subsidiary of Marathon Petroleum Company LP ("MPC"), plans to file a form C-103 with the New Mexico Oil Conservation Division ("NMOCD") as a notice of intention ("NOI") to plug and abandon ("P&A") one LPG storage well at the Jal State LPG storage facility in Lea County, New Mexico. Lonquist Field Service ("LFS") was contracted to prepare a proposed plan to P&A this well. This particular document pertains to the State LPG Storage Well No. 1 (30-025-35954) P&A procedure. Below is a summary of the final plug and abandonment operation:

- MIRU coiled tubing unit to drillout top two CIBPs and regain tubing ID.
- MIRU flowback equipment in preparation for product circulation.
- Shoot circulation holes in tubing below the casing shoe and circulate the remaining product out of the wellbore.
- Ensure the cavern is filled with brine, all product has been removed, and well has reached geostatic equilibrium.
- MIRU WOR.
- Wireline cut tubing and pull hanger.
- Engage/latch tubing stump.
- Free point tubing string.
- Make 2nd wireline cut on tubing and remove as much tubing as possible.
 - *Contingency: fish remaining tubing (washover and cut per NMOCD Guidance).*
- MU casing scraper and run to casing shoe.
- Set cement retainer on workstring.
- RU cementers and pump class A cement plug across the liner shoe and the bottommost casing shoe.
- WOC, tag and test retainer.
- Spot balanced cement plug(s) from retainer to surface, filling the entire wellbore with cement.
- WOC.
- Cut casing strings and remove wellhead.
- Confirm cement to surface, perform top fill job if necessary.
- Weld on ½" steel plate and erect permanent marker with required well information.
- Perform site closure requirements.

The following procedure provides a detailed prognosis for the proposed P&A procedure.

PREPARED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE	Client Signature
JNC	01/31/2024	WED	02/09/2024			

		P&A Procedure		Project No: F2377		
				Date: January 2024		
		Western Refining Company, LP State LPG Storage Well No. 1		Page: 2 of 10		
Property ID: 303729	State: New Mexico	County: Lea	Field: Langlie Mattix			
API: 30-025-35954	Location: M-32-23S-37E, 450 FSL, 780 FWL	Coordinates: NAD83 32.2547874, -103.1909103	Status: Offline LPG Storage			
REGULATORY INFORMATION: <p>The State LPG Storage Well No. 1 is regulated by the NMOCD. The NMOCD will be notified, and all activities approved prior to commencing work activities. Final P&A reports will be submitted to MPC and the NMOCD within 30 days of completion in the field (19.15.25.11 & 19.15.7.16 NMAC).</p> <p style="text-align: right;">Oil Conservation Division – Division 1 1625 N. French Drive Hobbs, NM 88240</p> <ul style="list-style-type: none"> • Gilbert Cordero – Compliance <ul style="list-style-type: none"> ○ Office – (575) 626-0830 ○ Email - Gilbert.Cordero@state.nm.us • 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 – VISION STATEMENT: <p>Lonquist 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, Lonquist 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 Lonquist. Our field supervisors are well-control certified, with both site specific and industry required safety qualifications related to new well drilling and well workovers. Lonquist 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. Lonquist 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. Lonquist 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 Lonquist 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>The following safety gear and personal protective equipment are required:</p> <ul style="list-style-type: none"> • Hard hat • Safety glasses with side protection (shields or curvature) • Fire retardant clothing • Steel-toed safety shoes w/ankle support – leather or rubber • Gloves • Fall protection required – 4' or above 						
PREPARED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE	Client Signature
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		P&A Procedure		Project No: F2377			
		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024			
				Page: 3 of 10			
Property ID: 303729		State: New Mexico		County: Lea		Field: Langlie Mattix	
API: 30-025-35954		Location: M-32-23S-37E, 450 FSL, 780 FWL		Coordinates: NAD83 32.2547874, -103.1909103		Status: Offline LPG Storage	

- Any additional required safety equipment
- Tour and Critical Operation Safety Meeting

Additional safety and housekeeping items include:

- 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

A completed and detailed site-specific safety plan will be included.

WORK PLAN:

The daily work activities will commence after all permits have been acquired and daily safety meetings have been completed. Decisions may have to be made in the field that could alter the procedure and/or result.

Plug and Abandon


Drill-out Upper CIBPs with Coil, Shoot Circulation Holes and Unload Wellbore/Cavern of Product

- Note wellhead pressures
- ND tree and MU necessary spools
- MIRU 1-1/2" coiled tubing unit ("CTU") and associated equipment
 - Function test and pressure test coil BOPE
 - Consider making up extra lubricator in the event that burn over contingency plan may need to be applied and additional BHA footage is required
- PU BHA #1:

Tool Description	OD	ID	Conn Down	Conn Up	Vendor	Length	Accum Length
Carbide Shoe w/ flutter cage	2.60"	2-1/4"	Shoe	2.5 WP	BTC	4.00	4.00
Extension	2-1/8"	-	2.5 WP	2.5 WP	BTC	8.00	12.00
Venturi	2-1/8"	-	2.5 WP	1.5" MT	BTC	2.00	14.00
Mud Motor	2-1/8"	-	1.5" MT	1.5" MT	BTC	2.00	16.00
Disconnect	2-1/8"	-	1.5" MT	1.5" MT	BTC	2.00	18.00
Dual Back Pressure Valve	2-1/8"	-	1.5" MT	1.5" MT	BTC	2.00	20.00
Coil Tubing Connector	2-1/8"	-	1.5" MT	1.5"	BTC	1.00	21.00

*The Measurements and lengths above are for Reference Only. All Lengths, O.D. and I.D. Measurements will be taken on location by FTS.

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		P&A Procedure		Project No: F2377			
		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024			
				Page: 4 of 10			
Property ID: 303729		State: New Mexico		County: Lea		Field: Langlie Mattix	
API: 30-025-35954		Location: M-32-23S-37E, 450 FSL, 780 FWL		Coordinates: NAD83 32.2547874, -103.1909103		Status: Offline LPG Storage	

5. RIH, establish circulation, burn over CIBP #1 @ 160' and chase down to CIBP #2 at 210'
 - a. Note depth tagged, engage/stomp on CIBP #1, POOH and document recovery of CIBP #1
 - b. *Contingency: If retrieval of CIBP #1 is deemed improbable, a longer shoe extension will be picked up that can burn over both sets of slips on CIBP #1 and #2, allowing both plugs to fall down on top of CIBP #3 @ 1,744'*
6. PU fresh shoe and same BHA as BHA #1
7. RIH and burn over CIBP @ 210' and chase down to CIBP #3 at 1,774'
 - a. Note depth tagged, engage/stomp on CIBP #2, POOH and document recovery of CIBP #2
8. Once both uppermost CIBPs are recovered and tubing ID is regained down to lowermost CIBPs, RDMO CTU
9. MIRU flowback and circulation equipment in preparation to circulate product to surface
10. MIRU wireline unit
11. RIH and shoot circulation holes in tubing @ 1,700'
12. Establish circulation and unload the wellbore/cavern of any residual product
13. Once product has been removed, ensure the cavern is filled with brine, the well has reached geostatic equilibrium
 - a. The cavern will be shut in and wellbore pressure will be monitored to ensure that geostatic equilibrium has been reached prior to continuing plugging operations. Findings will be communicated with appropriate parties including the NMOCD.

Wireline Cut Tubing and Pull Hanger


14. MIRU Workover Rig and equipment
 - a. Rig beam
 - b. Rig tank
 - c. Rig pump
 - d. Dog house
 - e. Pipe racks
 - f. Workstring
 - g. BOP
15. ND tree
16. NU BOP
 - a. Function and pressure test BOP
17. PU fishing BHA #1:

Tool Description	OD	ID	Conn Down	Conn Up	Vendor	Length	Accum Length
Overshot - Series 150	5-3/4"	-	cut lip	3-1/2" IF	BTC	4.00	4.00
Pup Joint	4.875"	2.563"	3-1/2" IF	3-1/2" IF	BTC	8.00	12.00

*The Measurements and lengths above are for Reference Only. All Lengths, O.D. and I.D. Measurements will be taken on location by FTS.

18. Engage 3-1/2" tubing stub in the wellhead with overshot
19. MIRU WL
20. Make low flare cut as shallow as possible
 - a. Cut below 3-1/2" collar and within 100' of surface
 - b. Ensure lug nuts are not engaged on tubing head/hanger
21. Per fisherman's direction pull tubing hanger from the bowl and LD cut 3-1/2" tubing

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		P&A Procedure		Project No: F2377	
		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024	
				Page: 5 of 10	
Property ID: 303729	State: New Mexico	County: Lea		Field: Langlie Mattix	
API: 30-025-35954	Location: M-32-23S-37E, 450 FSL, 780 FWL	Coordinates: NAD83 32.2547874, -103.1909103		Status: Offline LPG Storage	

Fish Tubing Neck, Perform Freepoint, Recover Free Tubing, and Make Casing Scraper Run

22. PU fishing BHA #2:

Tool Description	OD	ID	Conn Down	Conn Up	Vendor	Length	Accum Length
Overshot - Series 150	4-11/16"	-	cut lip	2-7/8" IF	BTC	4.00	4.00
Crossover to workstring	3.915"	2.920"	2-7/8" IF	??	BTC	2.00	6.00

*The Measurements and lengths above are for Reference Only. All Lengths, O.D. and I.D. Measurements will be taken on location by FTS.

23. RIH to top of 3-1/2" tubing and engage fish and prep for WL work

24. RIH with WL and perform a freepoint, POOH

25. RIH with WL and perform low flare cut on 3-1/2" tubing below the long string shoe @ 1,521'

a. Make cut 1-1/2 joints above stuck point

b. *Contingency: if this cut is above the 5-1/2" liner shoe at 1,480' attempt(s) will be made to recover remaining tubing until the top of fish ("TOF") is below the shoe. Additional contingency laid out in steps #27(c) – 30 is possible if an unexpected high cut is the case*

26. POOH and RDMO WL

27. POOH with fishing BHA #2 and recover 3-1/2" tubing

a. Add brine to wellbore as needed during POOH to ensure hole is full

b. Document recovery

c. *Contingency: document the condition of tubing cut for BHA #3 optimization*

28. *Contingency: PU fishing BHA #3:*

Tool Description	OD	ID	Conn Down	Conn Up	Vendor	Length	Accum Length
Overshot - Series 150	4-11/16"	-	cut lip guide	2-3/8" IF	BTC	4.00	4.00
Bumper Sub	3-3/4"	1.5"	2-3/8" IF	2-3/8" IF	BTC	6.00	10.00
Oil Jar	3-3/4"	1.5"	2-3/8" IF	2-3/8" IF	BTC	6.00	16.00
Drill Collars	3-1/2"	1.5"	2-3/8" IF	2-3/8" IF	BTC	124.00	140.00
Accelerator Jar	3-3/4"	1.5"	2-3/8" IF	2-3/8" IF	BTC	6.00	146.00
X-Over to Workstring	3-3/4"	1.5"	2-3/8" IF	?	BTC	2.00	148.00

*The Measurements and lengths above are for Reference Only. All Lengths, O.D. and I.D. Measurements will be taken on location by FTS.

29. *Contingency: Fishing ops and BHA design to vary depending on initial results*

a. *Washover/burnover and fish remaining tubing*

b. *If fishing operations reach a point where it is concluded that sufficient progress cannot be accomplished then operations will communicate with all parties and obtain guidance from the NMOCDC on how to proceed. This may included the confirmation to set the cement retainer within 50' of TOF. At which point cement volumes would be calculated to ensure that cement can be injected to fill the void from the bottom of the cement retainer to 50' below the deepest casing shoe @ 1,521'*

30. *Contingency: POOH, LD remaining tubing string*

a. *Add brine to wellbore as needed during POOH to ensure hole is full*


b. *Document recovery*


31. MU casing scraper and start RIH


32. RIH to liner shoe


a. Note any weight changes or anomalies during RIH

PREPARED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE	Client Signature
JNC	01/31/2024	WED	02/09/2024			

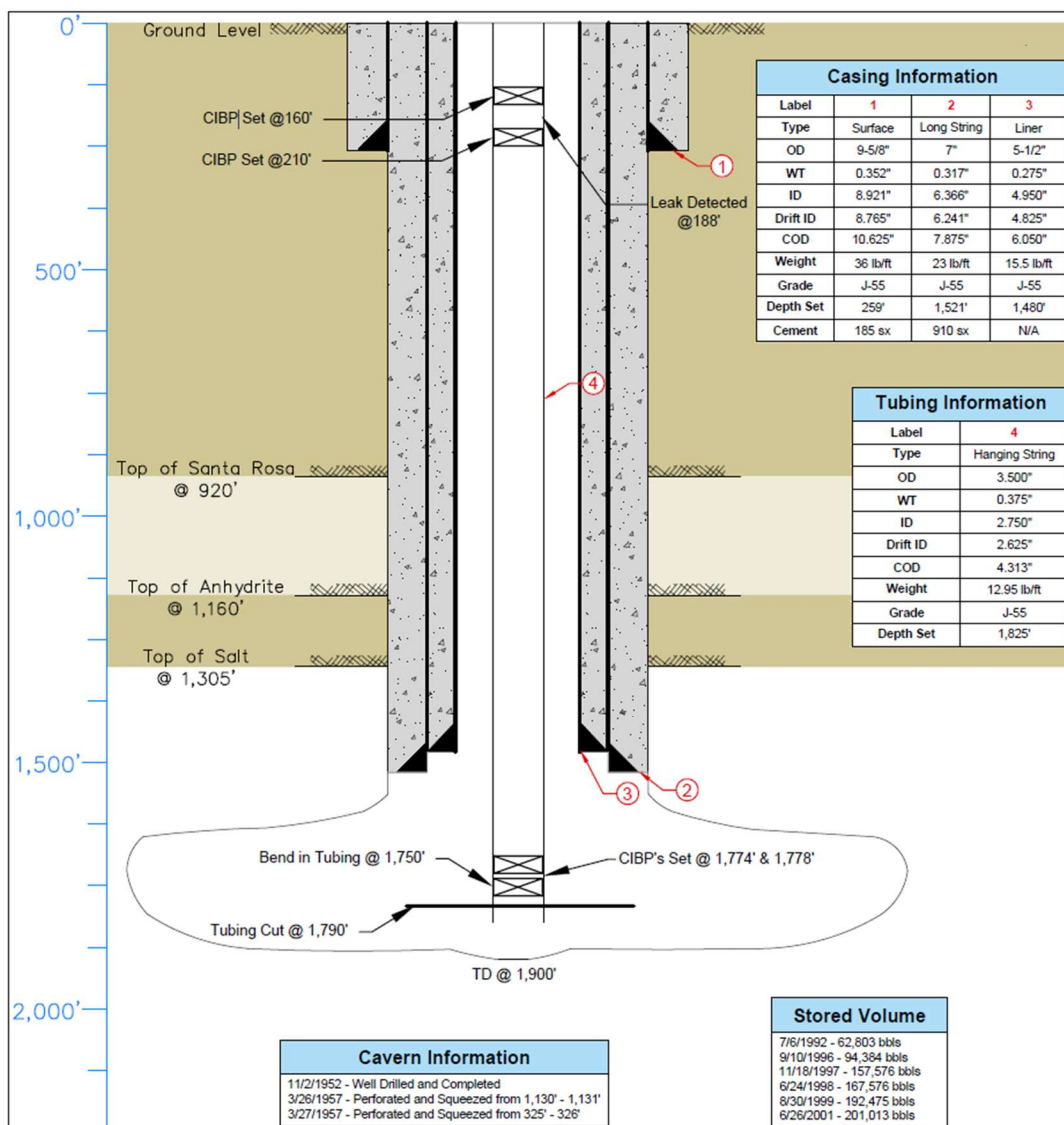
		P&A Procedure		Project No: F2377	
		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024	
				Page: 6 of 10	
Property ID: 303729		State: New Mexico		County: Lea	
API: 30-025-35954		Location: M-32-23S-37E, 450 FSL, 780 FWL		Coordinates: NAD83 32.2547874, -103.1909103	
Field: Langlie Mattix					
Status: Offline LPG Storage					
<p>33. POOH with casing scraper</p> <ul style="list-style-type: none"> a. Rack back workstring in derrick b. Document condition of scraper noting any abnormal wear <p><u>Hydraulic Set Cement Retainer, Pump Cement Plugs & Test</u></p> <p>34. MU and RIH with hydraulic set cement retainer</p> <ul style="list-style-type: none"> a. Set within 50' above liner shoe (1,480') b. Note weights prior to dropping ball to engage elements <p>35. Line up surface equipment in preparation for cementing ops</p> <p>36. Establish injection rate to confirm ability to pump cement below retainer</p> <ul style="list-style-type: none"> a. Note pressures and volume pumped <p>37. MIRU cementing company</p> <p>38. Pump class A cement to place cement plug #1 from 50' below the deepest casing shoe to the cement retainer</p> <ul style="list-style-type: none"> a. Note volume and pressures during pumping operation <p>39. Sting out of retainer, POOH 3 stands, reverse circulate workstring clean and POOH racking back workstring</p> <p>40. Wait on cement ("WOC") for 12 hours or as recommended by laboratory analysis</p> <p>41. RIH and tag cement retainer to confirm depth</p> <p>42. Pressure test retainer and cement plug #1 to 500 psi for 30 minutes</p> <p>43. Pump a balanced class A cement plug(s) from the cement retainer to surface</p> <ul style="list-style-type: none"> a. Plug(s) to be pumped in maximum increments per hole conditions <p>44. POOH above the calculated TOC, reverse circulate workstring clean and POOH racking back workstring</p> <ul style="list-style-type: none"> a. Racking back or LD dependent on cement test results and set up time <p>45. WOC for 12 hours or as recommended by laboratory analysis</p> <p><u>Remove Wellhead & Weld Marker</u></p> <p>46. ND BOPE</p> <p>47. Remove wellhead</p> <p>48. Fill any void remaining at surface with top off cement</p> <p>49. Cut all casing strings</p> <p>50. Weld on 1/2" steel plate and erect permanent marker that is:</p> <ul style="list-style-type: none"> a. not less than four inches in diameter set in cement and extending at least four feet above mean ground level. The operator name, lease name and well number and location, including unit letter, section, township and range, shall be welded, stamped or otherwise permanently engraved into the marker's metal (19.15.25.10 NMAC) b. The operator may use below-ground plugged and abandonment markers only with the division's written approval when an above-ground marker would interfere with agricultural endeavors. The below-ground marker shall have a steel plate welded onto the abandoned well's surface or conductor pipe and shall be at least three feet below the ground surface and of sufficient size so that all the information 19.15.16.8 NMAC requires can be stenciled into the steel or welded onto the steel plate's surface. The division may require a re-survey of the well location <p>51. RDMO all equipment</p>					
PREPARED BY		DATE		APPROVED BY	
JNC		01/31/2024		WED	
02/09/2024		Client Signature			

		P&A Procedure		Project No: F2377	
				Date: January 2024	
		Western Refining Company, LP State LPG Storage Well No. 1		Page: 7 of 10	
Property ID: 303729	State: New Mexico	County: Lea	Field: Langlie Mattix		
API: 30-025-35954	Location: M-32-23S-37E, 450 FSL, 780 FWL	Coordinates: NAD83 32.2547874, -103.1909103	Status: Offline LPG Storage		
SCHEDULE <ul style="list-style-type: none"> Days 1-4: MIRU CTU, regain tubing ID, RDMO CTU Days 5-6: MIRU flowback and pumping services, shoot circulation holes Intermission: Circulate wellbore, remove product, brine full, monitor returns, shut in well and monitor until geostatic equilibrium is reached Days 7: MIRU workover rig and equipment Days 8-11: Fishing operations to pull hanging string Days 12: Casing scraper run and set cement retainer Days 13-14: Pump cement plugs Days 15: Remove wellhead, cut and cap well Days 16: RDMO all equipment 					
Reporting Information <p>Daily Reports – Email or Fax</p> <ul style="list-style-type: none"> Marathon Petroleum Company Will George Bill Deupree Jake Coker <p>Final Reports – Email and Hard Copy</p> <ul style="list-style-type: none"> Marathon Petroleum Company Lonquist & Company, LLC <p>Final Reports to include:</p> <ul style="list-style-type: none"> Daily Reports Well Schematic Well Completion Report Well Logs Photos 					
PREPARED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE
JNC	01/31/2024	WED	02/09/2024		
					Client Signature

		<h2 style="text-align: center;">P&A Procedure</h2>		Project No: F2377		
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		Western Refining Company, LP State LPG Storage Well No. 1		Page: 8 of 10		
Property ID: 303729	State: New Mexico	County: Lea	Field: Langlie Mattix			
API: 30-025-35954	Location: M-32-23S-37E, 450 FSL, 780 FWL	Coordinates: NAD83 32.2547874, -103.1909103	Status: Offline LPG Storage			
Well Owner Western Refining Company, LP (Marathon Petroleum Company)						
Regulatory Oil Conservation Division – Division 1 1625 N. French Drive Hobbs, NM 88240 <ul style="list-style-type: none"> • Gilbert Cordero – Compliance <ul style="list-style-type: none"> ○ Office – (575) 626-0830 ○ Email - Gilbert.Cordero@state.nm.us • 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 						
Contractor Lonquist Field Service, LLC 1415 Louisiana St., Suite 3800 Houston, TX 77002 <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. – Vice President / Principal Engineer <ul style="list-style-type: none"> ○ Telephone – (512) 787-7478 ○ Fax – (512) 732-9816 ○ Email – will@lonquist.com • William (Bill) Deupree – Principal Engineer / Project Manager <ul style="list-style-type: none"> ○ Telephone – (832) 233-2191 ○ Fax – (512) 732-9816 ○ Email – bill@lonquist.com • Jake Coker – Petroleum Engineer <ul style="list-style-type: none"> ○ Telephone – (512) 940-2703 ○ Fax – (512) 732-9816 ○ Email – jake@lonquist.com 						
PREPARED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE	Client Signature
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		P&A Procedure		Project No: F2377	
		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024	
				Page: 9 of 10	
Property ID: 303729	State: New Mexico	County: Lea		Field: Langlie Mattix	
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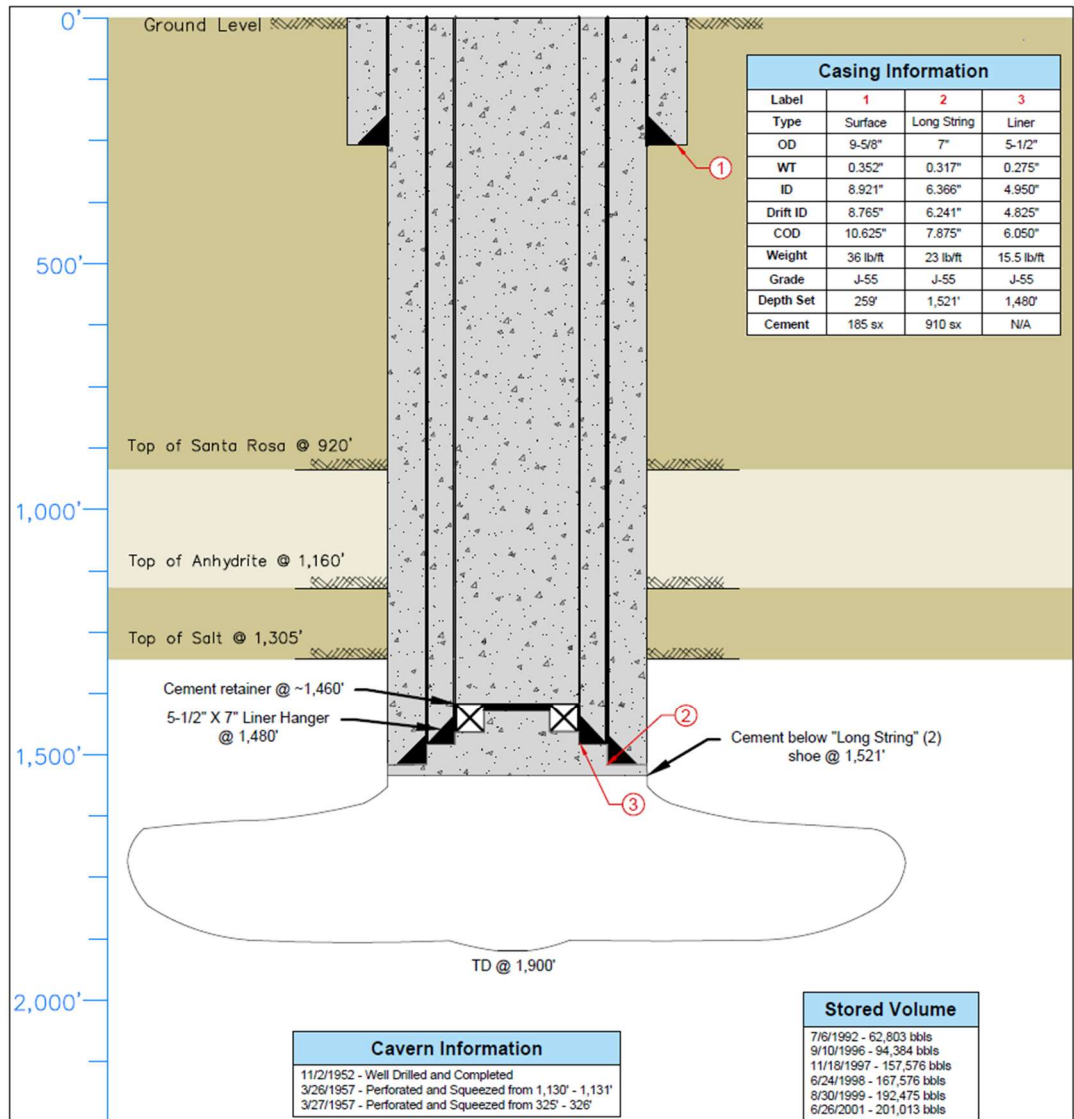
Current WBS



	Marathon Petroleum Company		State LPG Well No. 1	
	Country: USA	State/Province: New Mexico		County/Parish: Lea
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	Texas License F-9147	Property No.: 303729		Date: 1/19/21 (Reviewed: 2/9/2024)
12912 Hill Country Blvd., Suite F-200 Austin, Texas 78738 Tel: 512.732.9812 Fax: 512.732.9816	Drawn: WHG	Reviewed: JNC		Approved: WHG
	Rev No: 1	Notes:		


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LONQUIST FIELD SERVICE		P&A Procedure		Project No: F2377	
		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024	
				Page: 10 of 10	
Property ID: 303729	State: New Mexico	County: Lea		Field: Langlie Mattix	
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Proposed WBS

LONQUIST FIELD SERVICE 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		State LPG Well No. 1 Proposed P&A	
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		<h2 style="text-align: center;">P&A Procedure</h2>		Project No: F2377		
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INTRODUCTION:						
<p>Western Refining Company, LP, a subsidiary of Marathon Petroleum Company LP ("MPC"), plans to file a form C-103 with the New Mexico Oil Conservation Division ("NMOCD") as a notice of intention ("NOI") to plug and abandon ("P&A") one LPG storage well at the Jal State LPG storage facility in Lea County, New Mexico. Lonquist Field Service ("LFS") was contracted to prepare a proposed plan to P&A this well. This particular document pertains to the State LPG Storage Well No. 1 (30-025-35954) P&A procedure. Below is a summary of the final plug and abandonment operation:</p>						
<ul style="list-style-type: none"> • MIRU coiled tubing unit to drillout top two CIBPs and regain tubing ID. • MIRU flowback equipment in preparation for product circulation. • Shoot circulation holes in tubing below the casing shoe and circulate the remaining product out of the wellbore. • Ensure the cavern is filled with brine, all product has been removed, and well has reached geostatic equilibrium. • MIRU WOR. • Wireline cut tubing and pull hanger. • Engage/latch tubing stump. • Free point tubing string. • Make 2nd wireline cut on tubing and remove as much tubing as possible. <ul style="list-style-type: none"> ◦ <i>Contingency: fish remaining tubing (washover and cut per NMOCD Guidance).</i> • MU casing scraper and run to casing shoe. • Set cement retainer on workstring. • RU cementers and pump class A cement plug across the liner shoe and the bottommost casing shoe. • WOC, tag and test retainer. • Spot balanced cement plug(s) from retainer to surface, filling the entire wellbore with cement. • WOC. • Cut casing strings and remove wellhead. • Confirm cement to surface, perform top fill job if necessary. • Weld on ½" steel plate and erect permanent marker with required well information. • Perform site closure requirements. 						
<p>The following procedure provides a detailed prognosis for the proposed P&A procedure.</p>						
PREPARED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE	Client Signature
JNC	01/31/2024	WED	02/09/2024			

		P&A Procedure		Project No: F2377	
				Date: January 2024	
		Western Refining Company, LP State LPG Storage Well No. 1		Page: 2 of 10	
Property ID: 303729	State: New Mexico	County: Lea	Field: Langlie Mattix		
API: 30-025-35954	Location: M-32-23S-37E, 450 FSL, 780 FWL	Coordinates: NAD83 32.2547874, -103.1909103	Status: Offline LPG Storage		

REGULATORY INFORMATION:

The State LPG Storage Well No. 1 is regulated by the NMOCD. The NMOCD will be notified, and all activities approved prior to commencing work activities. Final P&A reports will be submitted to MPC and the NMOCD within 30 days of completion in the field (19.15.25.11 & 19.15.7.16 NMAC).

Oil Conservation Division – Division 1
 1625 N. French Drive
 Hobbs, NM 88240

- Gilbert Cordero – Compliance
 - Office – (575) 626-0830
 - Email - Gilbert.Cordero@state.nm.us
- Kerry Fortner – Compliance
 - Office – (575) 393-6161 ext. 120
 - Mobile – (575) 263-6633
 - Email - kerry.fortner@state.nm.us

SAFETY INFORMATION – VISION STATEMENT:


Lonquist 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, Lonquist 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 Lonquist. Our field supervisors are well-control certified, with both site specific and industry required safety qualifications related to new well drilling and well workovers. Lonquist 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. Lonquist 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. Lonquist 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.

Well site safety meetings will be conducted at the beginning of each day and at the beginning of critical operations by Lonquist 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.

The following safety gear and personal protective equipment are required:

- Hard hat
- Safety glasses with side protection (shields or curvature)
- Fire retardant clothing
- Steel-toed safety shoes w/ankle support – leather or rubber
- Gloves
- Fall protection required – 4' or above

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		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024	
				Page: 3 of 10	
Property ID: 303729	State: New Mexico	County: Lea	Field: Langlie Mattix		
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- Any additional required safety equipment
- Tour and Critical Operation Safety Meeting

Additional safety and housekeeping items include:

- 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

A completed and detailed site-specific safety plan will be included.

WORK PLAN:

The daily work activities will commence after all permits have been acquired and daily safety meetings have been completed. Decisions may have to be made in the field that could alter the procedure and/or result.

Plug and Abandon


Drill-out Upper CIBPs with Coil, Shoot Circulation Holes and Unload Wellbore/Cavern of Product

- Note wellhead pressures
- ND tree and MU necessary spools
- MIRU 1-1/2" coiled tubing unit ("CTU") and associated equipment
 - Function test and pressure test coil BOPE
 - Consider making up extra lubricator in the event that burn over contingency plan may need to be applied and additional BHA footage is required
- PU BHA #1:

Tool Description	OD	ID	Conn Down	Conn Up	Vendor	Length	Accum Length
Carbide Shoe w/ flutter cage	2.60"	2-1/4"	Shoe	2.5 WP	BTC	4.00	4.00
Extension	2-1/8"	-	2.5 WP	2.5 WP	BTC	8.00	12.00
Venturi	2-1/8"	-	2.5 WP	1.5" MT	BTC	2.00	14.00
Mud Motor	2-1/8"	-	1.5" MT	1.5" MT	BTC	2.00	16.00
Disconnect	2-1/8"	-	1.5" MT	1.5" MT	BTC	2.00	18.00
Dual Back Pressure Valve	2-1/8"	-	1.5" MT	1.5" MT	BTC	2.00	20.00
Coil Tubing Connector	2-1/8"	-	1.5" MT	1.5"	BTC	1.00	21.00

*The Measurements and lengths above are for Reference Only. All Lengths, O.D. and I.D. Measurements will be taken on location by FTS.

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		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024			
				Page: 4 of 10			
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API: 30-025-35954		Location: M-32-23S-37E, 450 FSL, 780 FWL		Coordinates: NAD83 32.2547874, -103.1909103		Status: Offline LPG Storage	

5. RIH, establish circulation, burn over CIBP #1 @ 160' and chase down to CIBP #2 at 210'
 - a. Note depth tagged, engage/stomp on CIBP #1, POOH and document recovery of CIBP #1
 - b. *Contingency: If retrieval of CIBP #1 is deemed improbable, a longer shoe extension will be picked up that can burn over both sets of slips on CIBP #1 and #2, allowing both plugs to fall down on top of CIBP #3 @ 1,744'*
6. PU fresh shoe and same BHA as BHA #1
7. RIH and burn over CIBP @ 210' and chase down to CIBP #3 at 1,774'
 - a. Note depth tagged, engage/stomp on CIBP #2, POOH and document recovery of CIBP #2
8. Once both uppermost CIBPs are recovered and tubing ID is regained down to lowermost CIBPs, RDMO CTU
9. MIRU flowback and circulation equipment in preparation to circulate product to surface
10. MIRU wireline unit
11. RIH and shoot circulation holes in tubing @ 1,700'
12. Establish circulation and unload the wellbore/cavern of any residual product
13. Once product has been removed, ensure the cavern is filled with brine, the well has reached geostatic equilibrium
 - a. The cavern will be shut in and wellbore pressure will be monitored to ensure that geostatic equilibrium has been reached prior to continuing plugging operations. Findings will be communicated with appropriate parties including the NMOCD.

Wireline Cut Tubing and Pull Hanger


14. MIRU Workover Rig and equipment
 - a. Rig beam
 - b. Rig tank
 - c. Rig pump
 - d. Dog house
 - e. Pipe racks
 - f. Workstring
 - g. BOP
15. ND tree
16. NU BOP
 - a. Function and pressure test BOP
17. PU fishing BHA #1:

Tool Description	OD	ID	Conn Down	Conn Up	Vendor	Length	Accum Length
Overshot - Series 150	5-3/4"	-	cut lip	3-1/2" IF	BTC	4.00	4.00
Pup Joint	4.875"	2.563"	3-1/2" IF	3-1/2" IF	BTC	8.00	12.00

*The Measurements and lengths above are for Reference Only. All Lengths, O.D. and I.D. Measurements will be taken on location by FTS.

18. Engage 3-1/2" tubing stub in the wellhead with overshot
19. MIRU WL
20. Make low flare cut as shallow as possible
 - a. Cut below 3-1/2" collar and within 100' of surface
 - b. Ensure lug nuts are not engaged on tubing head/hanger
21. Per fisherman's direction pull tubing hanger from the bowl and LD cut 3-1/2" tubing

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		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024	
				Page: 5 of 10	
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Fish Tubing Neck, Perform Freepoint, Recover Free Tubing, and Make Casing Scraper Run

22. PU fishing BHA #2:

Tool Description	OD	ID	Conn Down	Conn Up	Vendor	Length	Accum Length
Overshot - Series 150	4-11/16"	-	cut lip	2-7/8" IF	BTC	4.00	4.00
Crossover to workstring	3.915"	2.920"	2-7/8" IF	??	BTC	2.00	6.00

*The Measurements and lengths above are for Reference Only. All Lengths, O.D. and I.D. Measurements will be taken on location by FTS.

23. RIH to top of 3-1/2" tubing and engage fish and prep for WL work

24. RIH with WL and perform a freepoint, POOH

25. RIH with WL and perform low flare cut on 3-1/2" tubing below the long string shoe @ 1,521'

a. Make cut 1-1/2 joints above stuck point

b. *Contingency: if this cut is above the 5-1/2" liner shoe at 1,480' attempt(s) will be made to recover remaining tubing until the top of fish ("TOF") is below the shoe. Additional contingency laid out in steps #27(c) – 30 is possible if an unexpected high cut is the case*

26. POOH and RDMO WL

27. POOH with fishing BHA #2 and recover 3-1/2" tubing

a. Add brine to wellbore as needed during POOH to ensure hole is full

b. Document recovery

c. *Contingency: document the condition of tubing cut for BHA #3 optimization*

28. *Contingency: PU fishing BHA #3:*

Tool Description	OD	ID	Conn Down	Conn Up	Vendor	Length	Accum Length
Overshot - Series 150	4-11/16"	-	cut lip guide	2-3/8" IF	BTC	4.00	4.00
Bumper Sub	3-3/4"	1.5"	2-3/8" IF	2-3/8" IF	BTC	6.00	10.00
Oil Jar	3-3/4"	1.5"	2-3/8" IF	2-3/8" IF	BTC	6.00	16.00
Drill Collars	3-1/2"	1.5"	2-3/8" IF	2-3/8" IF	BTC	124.00	140.00
Accelerator Jar	3-3/4"	1.5"	2-3/8" IF	2-3/8" IF	BTC	6.00	146.00
X-Over to Workstring	3-3/4"	1.5"	2-3/8" IF	?	BTC	2.00	148.00

*The Measurements and lengths above are for Reference Only. All Lengths, O.D. and I.D. Measurements will be taken on location by FTS.

29. *Contingency: Fishing ops and BHA design to vary depending on initial results*

a. *Washover/burnover and fish remaining tubing*

b. *If fishing operations reach a point where it is concluded that sufficient progress cannot be accomplished then operations will communicate with all parties and obtain guidance from the NMOCDC on how to proceed. This may included the confirmation to set the cement retainer within 50' of TOF. At which point cement volumes would be calculated to ensure that cement can be injected to fill the void from the bottom of the cement retainer to 50' below the deepest casing shoe @ 1,521'*

30. *Contingency: POOH, LD remaining tubing string*

a. *Add brine to wellbore as needed during POOH to ensure hole is full*


b. *Document recovery*


31. MU casing scraper and start RIH


32. RIH to liner shoe


a. Note any weight changes or anomalies during RIH

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JNC	01/31/2024	WED	02/09/2024			

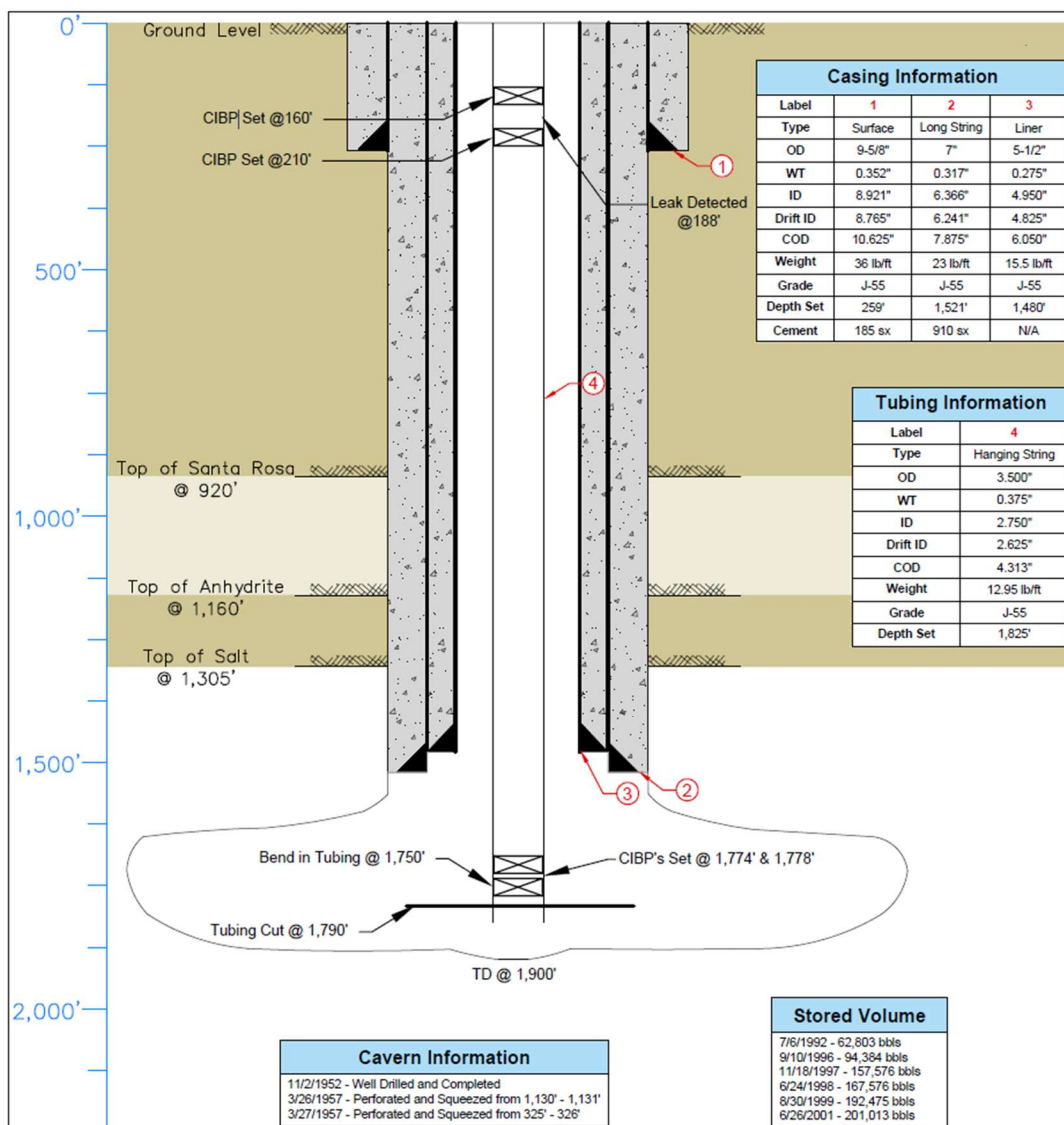
		P&A Procedure		Project No: F2377	
		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024	
				Page: 6 of 10	
Property ID: 303729		State: New Mexico		County: Lea	
API: 30-025-35954		Location: M-32-23S-37E, 450 FSL, 780 FWL		Coordinates: NAD83 32.2547874, -103.1909103	
<p>33. POOH with casing scraper</p> <ul style="list-style-type: none"> a. Rack back workstring in derrick b. Document condition of scraper noting any abnormal wear <p><u>Hydraulic Set Cement Retainer, Pump Cement Plugs & Test</u></p> <p>34. MU and RIH with hydraulic set cement retainer</p> <ul style="list-style-type: none"> a. Set within 50' above liner shoe (1,480') b. Note weights prior to dropping ball to engage elements <p>35. Line up surface equipment in preparation for cementing ops</p> <p>36. Establish injection rate to confirm ability to pump cement below retainer</p> <ul style="list-style-type: none"> a. Note pressures and volume pumped <p>37. MIRU cementing company</p> <p>38. Pump class A cement to place cement plug #1 from 50' below the deepest casing shoe to the cement retainer</p> <ul style="list-style-type: none"> a. Note volume and pressures during pumping operation <p>39. Sting out of retainer, POOH 3 stands, reverse circulate workstring clean and POOH racking back workstring</p> <p>40. Wait on cement ("WOC") for 12 hours or as recommended by laboratory analysis</p> <p>41. RIH and tag cement retainer to confirm depth</p> <p>42. Pressure test retainer and cement plug #1 to 500 psi for 30 minutes</p> <p>43. Pump a balanced class A cement plug(s) from the cement retainer to surface</p> <ul style="list-style-type: none"> a. Plug(s) to be pumped in maximum increments per hole conditions <p>44. POOH above the calculated TOC, reverse circulate workstring clean and POOH racking back workstring</p> <ul style="list-style-type: none"> a. Racking back or LD dependent on cement test results and set up time <p>45. WOC for 12 hours or as recommended by laboratory analysis</p> <p><u>Remove Wellhead & Weld Marker</u></p> <p>46. ND BOPE</p> <p>47. Remove wellhead</p> <p>48. Fill any void remaining at surface with top off cement</p> <p>49. Cut all casing strings</p> <p>50. Weld on 1/2" steel plate and erect permanent marker that is:</p> <ul style="list-style-type: none"> a. not less than four inches in diameter set in cement and extending at least four feet above mean ground level. The operator name, lease name and well number and location, including unit letter, section, township and range, shall be welded, stamped or otherwise permanently engraved into the marker's metal (19.15.25.10 NMAC) b. The operator may use below-ground plugged and abandonment markers only with the division's written approval when an above-ground marker would interfere with agricultural endeavors. The below-ground marker shall have a steel plate welded onto the abandoned well's surface or conductor pipe and shall be at least three feet below the ground surface and of sufficient size so that all the information 19.15.16.8 NMAC requires can be stenciled into the steel or welded onto the steel plate's surface. The division may require a re-survey of the well location <p>51. RDMO all equipment</p>					
PREPARED BY		DATE		APPROVED BY	
JNC		01/31/2024		WED	
APPROVED BY		DATE		DATE	
02/09/2024				Client Signature	

		P&A Procedure		Project No: F2377	
				Date: January 2024	
		Western Refining Company, LP State LPG Storage Well No. 1		Page: 7 of 10	
Property ID: 303729	State: New Mexico	County: Lea	Field: Langlie Mattix		
API: 30-025-35954	Location: M-32-23S-37E, 450 FSL, 780 FWL	Coordinates: NAD83 32.2547874, -103.1909103	Status: Offline LPG Storage		
SCHEDULE <ul style="list-style-type: none"> Days 1-4: MIRU CTU, regain tubing ID, RDMO CTU Days 5-6: MIRU flowback and pumping services, shoot circulation holes Intermission: Circulate wellbore, remove product, brine full, monitor returns, shut in well and monitor until geostatic equilibrium is reached Days 7: MIRU workover rig and equipment Days 8-11: Fishing operations to pull hanging string Days 12: Casing scraper run and set cement retainer Days 13-14: Pump cement plugs Days 15: Remove wellhead, cut and cap well Days 16: RDMO all equipment 					
Reporting Information <p>Daily Reports – Email or Fax</p> <ul style="list-style-type: none"> Marathon Petroleum Company Will George Bill Deupree Jake Coker <p>Final Reports – Email and Hard Copy</p> <ul style="list-style-type: none"> Marathon Petroleum Company Lonquist & Company, LLC <p>Final Reports to include:</p> <ul style="list-style-type: none"> Daily Reports Well Schematic Well Completion Report Well Logs Photos 					
PREPARED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE
JNC	01/31/2024	WED	02/09/2024		
					Client Signature

		<h2 style="text-align: center;">P&A Procedure</h2>		Project No: F2377		
				Date: January 2024		
		Western Refining Company, LP State LPG Storage Well No. 1		Page: 8 of 10		
Property ID: 303729	State: New Mexico	County: Lea	Field: Langlie Mattix			
API: 30-025-35954	Location: M-32-23S-37E, 450 FSL, 780 FWL	Coordinates: NAD83 32.2547874, -103.1909103	Status: Offline LPG Storage			
Well Owner Western Refining Company, LP (Marathon Petroleum Company)						
Regulatory Oil Conservation Division – Division 1 1625 N. French Drive Hobbs, NM 88240 <ul style="list-style-type: none"> • Gilbert Cordero – Compliance <ul style="list-style-type: none"> ○ Office – (575) 626-0830 ○ Email - Gilbert.Cordero@state.nm.us • 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 						
Contractor Lonquist Field Service, LLC 1415 Louisiana St., Suite 3800 Houston, TX 77002 <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. – Vice President / Principal Engineer <ul style="list-style-type: none"> ○ Telephone – (512) 787-7478 ○ Fax – (512) 732-9816 ○ Email – will@lonquist.com • William (Bill) Deupree – Principal Engineer / Project Manager <ul style="list-style-type: none"> ○ Telephone – (832) 233-2191 ○ Fax – (512) 732-9816 ○ Email – bill@lonquist.com • Jake Coker – Petroleum Engineer <ul style="list-style-type: none"> ○ Telephone – (512) 940-2703 ○ Fax – (512) 732-9816 ○ Email – jake@lonquist.com 						
PREPARED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE	Client Signature
JNC	01/31/2024	WED	02/09/2024			

		P&A Procedure		Project No: F2377	
		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024	
				Page: 9 of 10	
Property ID: 303729	State: New Mexico	County: Lea		Field: Langlie Mattix	
API: 30-025-35954	Location: M-32-23S-37E, 450 FSL, 780 FWL	Coordinates: NAD83 32.2547874, -103.1909103		Status: Offline LPG Storage	

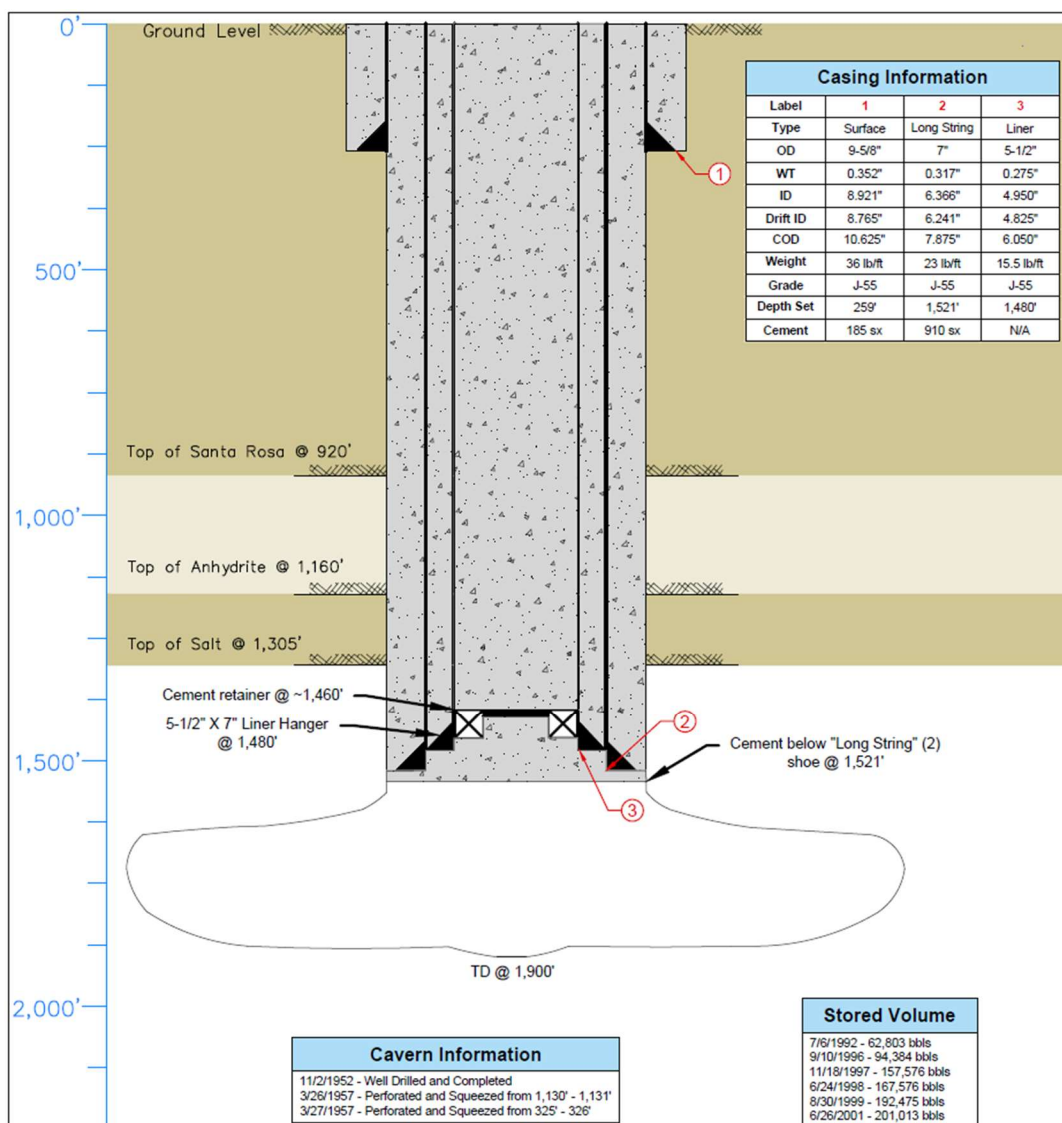
Current WBS



	Marathon Petroleum Company		State LPG Well No. 1	
	Country: USA	State/Province: New Mexico		County/Parish: Lea
	Survey/STR: M-32-23S-37E	Site: Jal, NM		Status: P&A Prep
	API No.: 30-025-35954	Field: Langlie Mattix		Ground Elevation: 3,312'
	Texas License F-9147	Property No.: 303729		Date: 1/19/21 (Reviewed: 2/9/2024)
12912 Hill Country Blvd., Suite F-200 Austin, Texas 78738 Tel: 512.732.9812 Fax: 512.732.9816	Drawn: WHG	Reviewed: JNC		Approved: WHG
	Rev No: 1	Notes:		

PREPARED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE	Client Signature
JNC	01/31/2024	WED	02/09/2024			

LONQUIST FIELD SERVICE		P&A Procedure		Project No: F2377	
		Western Refining Company, LP State LPG Storage Well No. 1		Date: January 2024	
				Page: 10 of 10	
Property ID: 303729	State: New Mexico	County: Lea		Field: Langlie Mattix	
API: 30-025-35954	Location: M-32-23S-37E, 450 FSL, 780 FWL	Coordinates: NAD83 32.2547874, -103.1909103		Status: Offline LPG Storage	

Proposed WBS

LONQUIST FIELD SERVICE	Marathon Petroleum Company		State LPG Well No. 1 Proposed P&A	
	Country: USA	State/Province: New Mexico	County/Parish: Lea	
	Survey/STR: M-32-23S-37E	Site: Jal, NM	Current Status: P&A Prep	
	API No.: 30-025-35954	Field: Langlie Mattix	Ground Elevation: 3,312'	
	Texas License F-9147	Property No.: 303729	Project No: F2377	Date: 02/02/2024
12912 Hill Country Blvd., Suite F-200 Austin, Texas 78738 Tel: 512.732.9812 Fax: 512.732.9816	Drawn: JNC	Reviewed: WED	Approved: WED	
	Rev No: 1	Notes:		

PREPARED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE	Client Signature
JNC	01/31/2024	WED	02/09/2024			

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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 313261

COMMENTS

Operator: WESTERN REFINING COMPANY, L.P. 15 Smith Road Midland, TX 79705	OGRID: 248440
	Action Number: 313261
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

COMMENTS

Created By	Comment	Comment Date
cchavez	LPG Storage Well No. 1 Plug & Abandonment Sundry OCD Form C-103F [C-103] NOI Plug &Abandon (C-103F) • Addtlionally referred to as: NOi - Plug &Abandon (C-103F), • 19.15.7.14A. Form C-103 as a notice of Intention. (1)An operator shall file form C-103 and obtain the division's approval prior to: (e) plugging and abandoning a well; OCDOnly Administration • 19.15.7.14A. Form C-103 as a notice of Intention. (2) In the case of well plugging operations, the notice of Intention shall Include a detailed statement of the proposed work Including plans for shooting and pulling casing; plans for mudding, Including the mud's weight; plans for cementing, Including number of sacks of cement and depths of plugs; restoration and remedial of the location; and the time and date of the proposed plugging operations.	3/21/2024

District I
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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

CONDITIONS

Action 313261

CONDITIONS

Operator: WESTERN REFINING COMPANY, L.P. 15 Smith Road Midland, TX 79705	OGRID: 248440
	Action Number: 313261
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
cchavez	Conditions of Approval: 1. Cement Type: Class 'C' Cement required; 2. Provide number of sacks of cement with volume and yield prior to work; and 3. Above surface marker in accordance with 19.15 NMAC required..	3/21/2024