



## Wellhead Closure Checklist 2

Project	Occidental Petroleum
ID	353360
Survey Date	06/07/2023
User	Chris Bodie
Additional Attachments (Optional)	Flowline Closure
Site Name	REI H 9-33D
Remediation Project #	28512

### Wellhead Information

Weather	73° sunny
Client	Oxy
Location	
Latitude	40.235406
Longitude	-104.676553
General Condition of Site	Good
USCS Soil Type	<i>Sandy Clay / Sandy Clay</i>
Estimated Depth to Groundwater	<20'
Hydrocarbon Impacted Soils / Spills	None observed
Salt Crusted Soils or Impacted Vegetation	None observed

### Soil Samples

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Other Visual	Olfactory	Other Olfactory	Direction	Equipment Name	Other Equipment Type
R1	06/06/2023	03:13 PM	FL-B01@4'	0.8	N.S		N.O			Flowline	
R2	06/06/2023	03:20 PM	FL-B02@4'	0.3	N.S		N.O			Flowline	
R3	06/07/2023	13:28	FL-B03@4'	0.4	N.S		N.O			Flowline	
R4	06/07/2023	13:39	FL-B04@4	0.7	N.S		N.O			Flowline	
R5	06/07/2023	14:02	FL-B05@4'	0.7	N.S		N.O			Flowline	
R6	06/07/2023	14:20	FL-B06@4'	0.4	N.S		N.O			Flowline	
R7	06/07/2023	15:17	FL-B07@4'	0.8	N.S		N.O			Flowline	
R8	06/07/2023	15:52	FL-B08@4'	4.3	N.S		N.O			Flowline at Separator	
R9	08/10/	12:32	FL-	0.8	N.S		N.O			Flowline	

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Other Visual	Olfactory	Other Olfactory	Direction	Equipment Name	Other Equipment Type
	2023	PM	B06@7'								
R10	08/10/2023	12:34 PM	FL-N01@4'	0.6	N.S		N.O			Flowline	
R11	08/10/2023	12:36 PM	FL-S01@4'	0.5	N.S		N.O			Flowline	
R12	08/10/2023	12:38 PM	FL-E01@4'	0.7	N.S		N.O			Flowline	
R13	08/10/2023	12:40 PM	FL-W01@4'	0.4	N.S		N.O			Flowline	
R14	08/10/2023	12:44 PM	FL-B07@7'	1.1	N.S		N.O			Flowline	
R15	08/10/2023	12:46 PM	FL-N02@4'	0.6	N.S		N.O			Flowline	
R16	08/10/2023	12:48 PM	FL-S02@4'	0.9	N.S		N.O			Flowline	
R17	08/10/2023	12:50 PM	FL-E02@4'	0.4	N.S		N.O			Flowline	
R18	08/10/2023	12:52 PM	FL-W02@4'	0.5	N.S		N.O			Flowline	
R19	08/22/2023	10:48 AM	WH-BG01@3'	0.1	N.S		N.O			Wellhead Background	
R20	08/22/2023	10:49 AM	WH-BG01@6'	0.2	N.S		N.O			Wellhead Background	
R21	08/22/2023	10:51 AM	WH-BG02@3'	0.7	N.S		N.O			Wellhead Background	
R22	08/22/2023	10:53 AM	WH-BG02@6'	0.7	N.S		N.O			Wellhead Background	
R23	08/22/2023	10:55 AM	WH-BG03@3'	1.2	N.S		N.O			Wellhead Background	
R24	08/22/2023	10:57 AM	WH-BG03@6'	1.1	N.S		N.O			Wellhead Background	
R25	08/22/2023	11:10 AM	WHS-N01@3"	1.3	N.S		N.O			Wellhead Surface	
R26	08/22/2023	11:12 AM	WHS-S01@3"	0.6	N.S		N.O			Wellhead Surface	
R27	08/22/2023	11:14 AM	WHS-E01@3"	0.7	N.S		N.O			Wellhead Surface	
R28	08/22/2023	11:16 AM	WHS-W01@3"	1.0	N.S		N.O			Wellhead Surface	
R29	08/22/2023	11:37 AM	WH-B01@8'	1.4	N.S		N.O			Wellhead	
R30	08/22/2023	11:39 AM	FL-B09@4'	1.3	N.S		N.O			Flowline at Wellhead	
R31	08/22/2023	11:41 AM	WH-N01@7'	0.2	N.S		N.O			Wellhead	
R32	08/22/2023	11:46 AM	WH-S01@7'	0.1	N.S		N.O			Wellhead	

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Other Visual	Olfactory	Other Olfactory	Direction	Equipment Name	Other Equipment Type
R33	08/22/2023	11:48 AM	WH-E01@7'	0.1	N.S		N.O			Wellhead	
R34	08/22/2023	11:49 AM	WH-W01@7'	0.2	N.S		N.O			Wellhead	
R35	09/19/2023	09:30 AM	FL-B06@10'	0.9	N.S		N.O			Flowline	
R36	09/19/2023	09:32 AM	FL-N04@7'	0.5	N.S		N.O			Flowline	
R37	09/19/2023	09:34 AM	FL-E04@7'	0.6	N.S		N.O			Flowline	
R38	09/19/2023	09:36 AM	FL-S04@7'	1.1	N.S		N.O			Flowline	
R39	09/19/2023	09:38 AM	FL-W04@7'	0.4	N.S		N.O			Flowline	
R40	09/19/2023	10:02 AM	FL-B03@8'	0.7	N.S		N.O			Flowline	
R41	09/19/2023	10:04 AM	FL-N05@4'	1.0	N.S		N.O			Flowline	
R42	09/19/2023	10:06 AM	FL-S05@4'	0.5	N.S		N.O			Flowline	
R43	09/19/2023	10:08 AM	FL-E05@4'	0.6	N.S		N.O			Flowline	
R44	09/19/2023	10:10 AM	FL-W05@4'	0.5	N.S		N.O			Flowline	

Photo(s)

R1 - P1



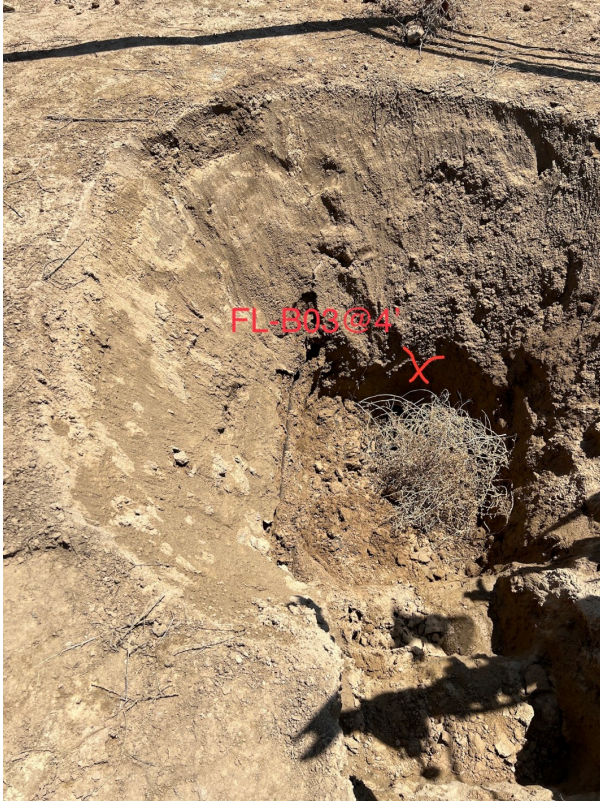
Looking south

R2 - P1

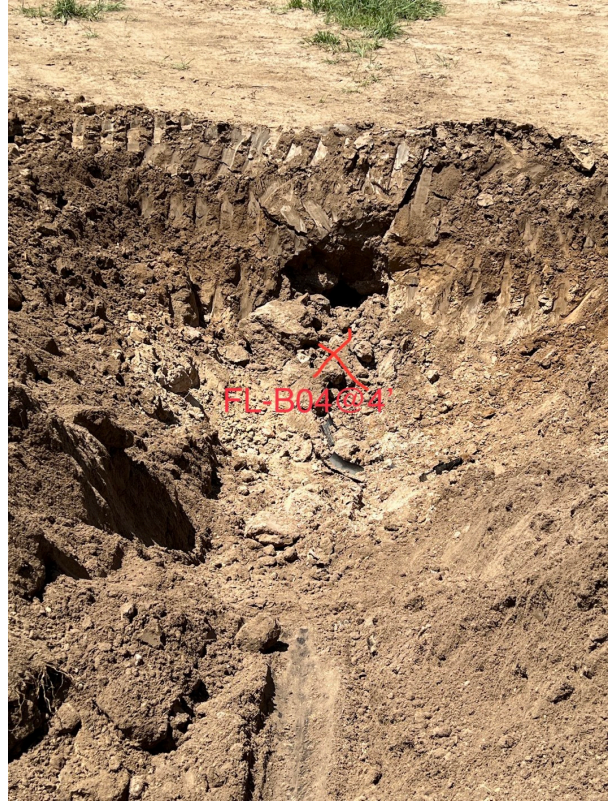


Looking east

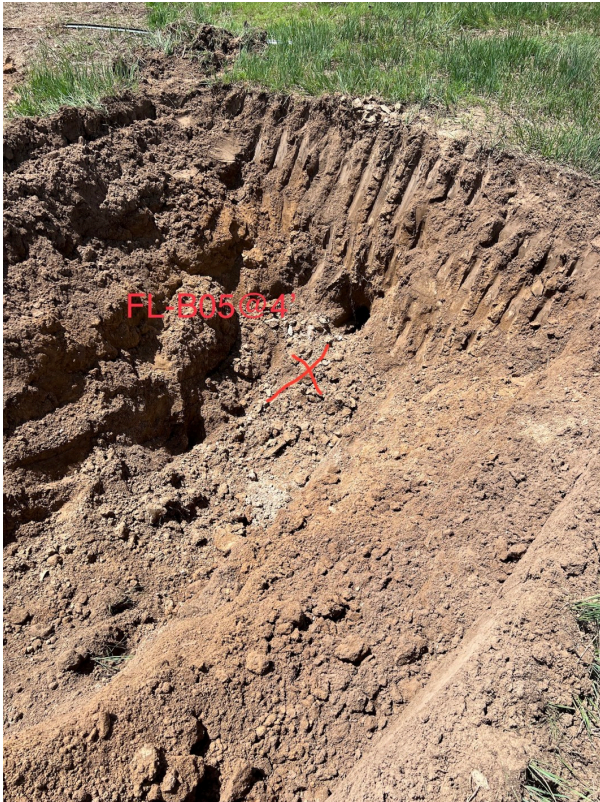
R3 - P1



R4 - P1



R5 - P1



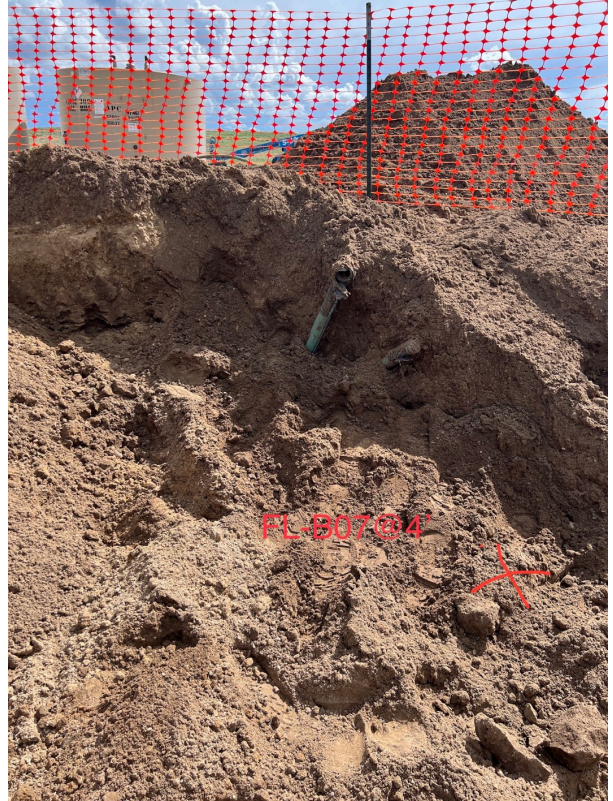
R6 - P1



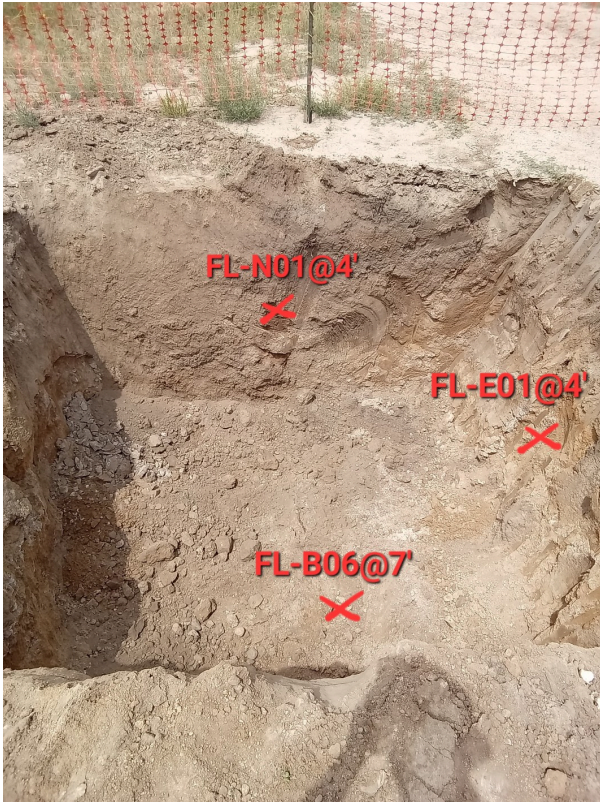
R7 - P1



R8 - P1



R10 - P1



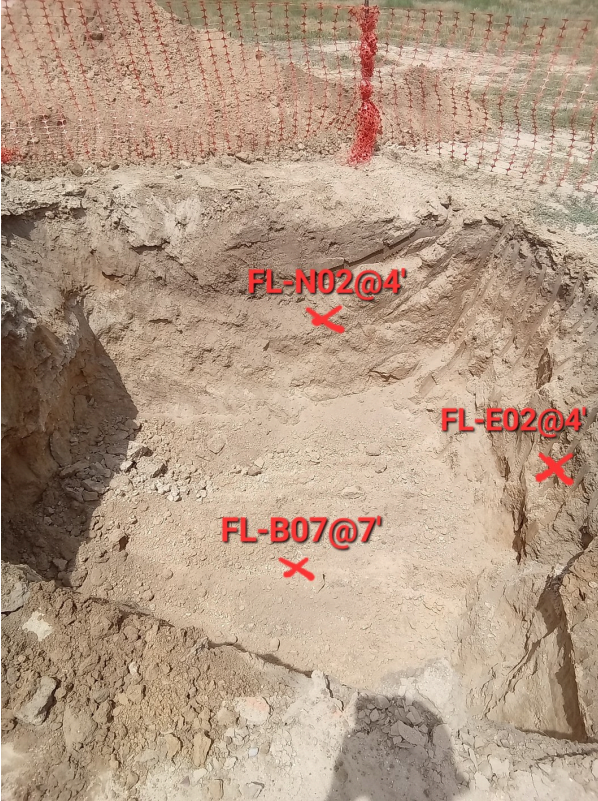
Looking north

R11 - P1



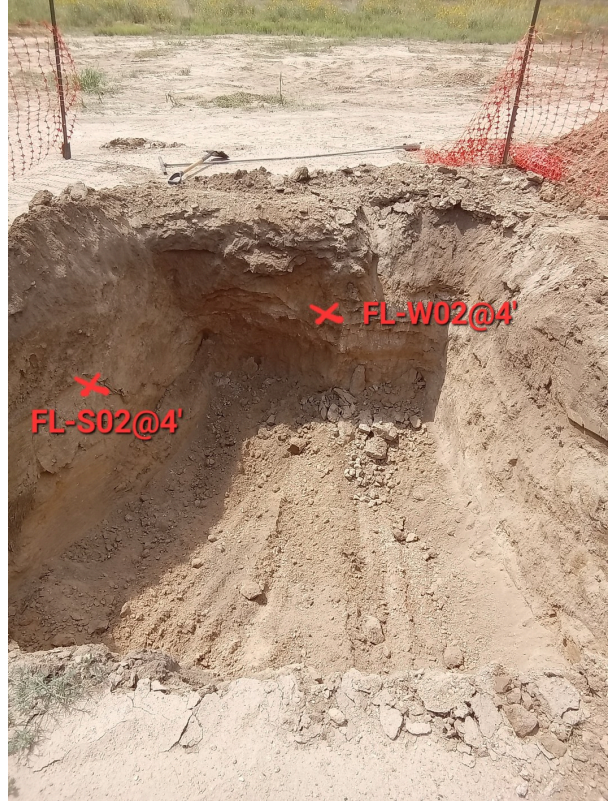
Looking south

R14 - P1



Looking north

R16 - P1



Looking west

R19 - P1



Facing west

R21 - P1



Facing east

R23 - P1



Facing north

R25 - P1



Facing east

R26 - P1



Facing west

R27 - P1



Facing south

R28 - P1



Facing south

R30 - P1



Facing north

R35 - P1

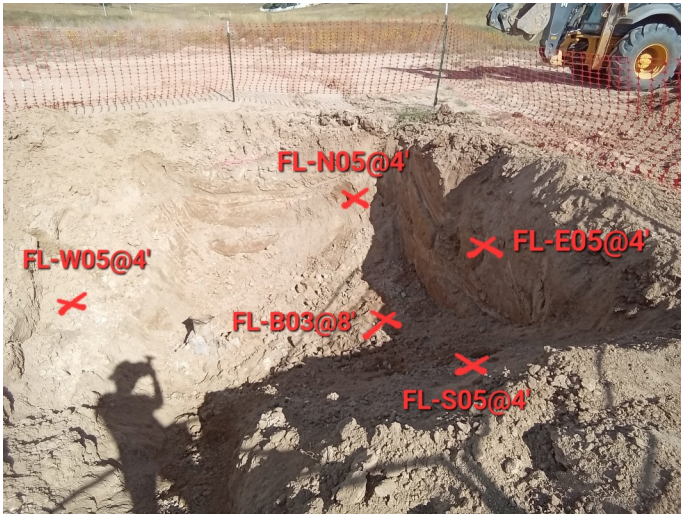


Looking northeast

R38 - P1



Looking southwest



Looking north

Other observations regarding wellheads

**Summary**

Was impacted soil identified?	Yes - less than 10 cubic yards
Total number of soil samples field screened	44
Total number of soil samples collected	44
Highest PID Reading	4.3
Total number of soil samples submitted to lab for analysis	32
Was groundwater encountered during the investigation?	No
Measured depth to groundwater	
Was remedial groundwater removal conducted?	
Date Groundwater was encountered	
Commencement date of removal	
Sheen on groundwater?	
Free product observed?	
Volume of groundwater removed prior to sampling	
Volume of groundwater removed post sampling	
Total volume of groundwater removed	
Total number of groundwater samples collected	
Total number of groundwater samples submitted to lab for analysis	



## Wellhead Closure Checklist 2

Additional Attachments (Optional)	Flowline Closure
Site Name	REI H 9-32D,33D
Remediation Project #	28512

### Wellhead Information

Weather	
Client	Oxy
Location	
Latitude	40.235406
Longitude	-104.676401
General Condition of Site	Site in good condition
USCS Soil Type	Sandy Clay/ Sandy Clay
Estimated Depth to Groundwater	<20'
Hydrocarbon Impacted Soils / Spills	None observed
Salt Crusted Soils or Impacted Vegetation	None observed

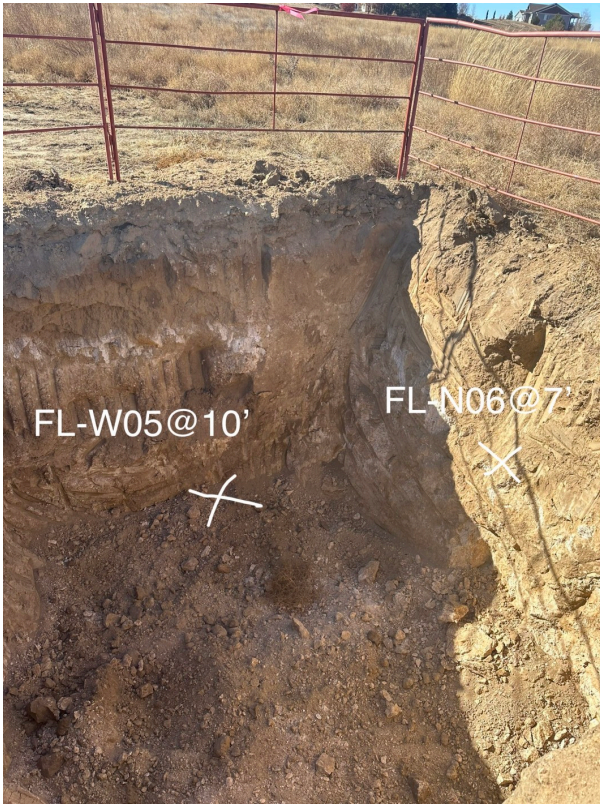
### Soil Samples

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Name
R1	11/10/2023	01:00 PM	FL-N06@7'	0.8	N.S	N.O	Flowline
R2	11/10/2023	01:04 PM	FL-E06@7'	1.3	N.S	N.O	Flowline
R3	11/10/2023	01:07 PM	FL-S05@10'	0.6	N.S	N.O	Flowline
R4	11/10/2023	01:10 PM	FL-W05@10'	0.2	N.S	N.O	Flowline
R5	01/03/2024	1:25 PM	FL-W06 @ 10'	2.2	N.S	N.O	Flowline
R6	01/03/2024	01:30 PM	FL-N07 @ 7'	0.8	N.S	N.O	Flowline
R7	01/03/2024	01:55 PM	WH-BG05 @ 10'	0.4	N.S	N.O	Wellhead Background
R8	01/23/2024	03:05 PM	FL-N08 @ 7'	0.7	N.S	N.O	Flowline
R9	01/23/2024	03:10 PM	FL-N09 @ 7'	0.9	N.S	N.O	Flowline
R10	01/23/2024	03:15 PM	FL-W07 @ 10'	0.5	N.S	N.O	Flowline
R11	01/23/2024	03:20 PM	FL-W08 @ 10'	0.4	N.S	N.O	Flowline
R12	01/23/2024	03:25 PM	FL-B08 @ 12'	1.0	N.S	N.O	Flowline
R13	01/23/2024	03:30 PM	FL-B09 @ 12'	0.9	N.S	N.O	Flowline
R14	01/24/2024	11:50 AM	FL-E07@7'	3.1	N.S	N.O	Flowline
R15	01/24/2024	12:00 PM	FL-S06@10'	3.9	N.S	N.O	Flowline
R16	02/12/2024	01:30 PM	FL-BG06@8'	0.7	N.S	N.O	Wellhead Background
R17	02/12/2024	01:32 PM	FL-BG06@12'	0.6	N.S	N.O	Wellhead Background
R18	02/12/2024	01:34 PM	FL-BG07@8'	0.4	N.S	N.O	Wellhead Background
R19	02/12/2024	01:36 PM	FL-BG07@12'	0.4	N.S	N.O	Wellhead Background
R20	02/12/2024	01:38 PM	FL-BG08@8'	0.2	N.S	N.O	Wellhead Background

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Name
R21	02/12/2024	01:40 PM	FL-BG08@12'	0.3	N.S	N.O	Wellhead Background
R22	02/12/2024	01:42 PM	FL-BG09@8'	0.4	N.S	N.O	Wellhead Background
R23	02/12/2024	01:44 PM	FL-BG09@12'	0.3	N.S	N.O	Wellhead Background
R24	03/08/2024	12:10 PM	FL-B10 @ 14'	0.1	N.S	N.O	Flowline
R25	03/08/2024	12:15 PM	FL-B11 @ 14'	0.4	N.S	N.O	Flowline
R26	03/08/2024	12:25 PM	FL-N08 @ 12'	0.0	N.S	N.O	Flowline
R27	03/08/2024	12:30 PM	FL-N09 @ 12'	0.4	N.S	N.O	Flowline
R28	03/08/2024	12:40 PM	FL-E07 @ 12'	0.8	N.S	N.O	Flowline
R29	03/08/2024	12:45 PM	FL-E08 @ 12'	0.4	N.S	N.O	Flowline
R30	03/08/2024	01:00 PM	FL-S06 @ 12'	0.8	N.S	N.O	Flowline
R31	03/08/2024	01:05 PM	FL-S07 @ 12'	0.2	N.S	N.O	Flowline
R32	03/08/2024	01:20 PM	FL-W07 @ 12'	0.1	N.S	N.O	Flowline
R33	03/08/2024	01:25 PM	FL-W08 @ 12'	0.7	N.S	N.O	Flowline

Photo(s)

R1 - P1



Facing northwest

R2 - P1



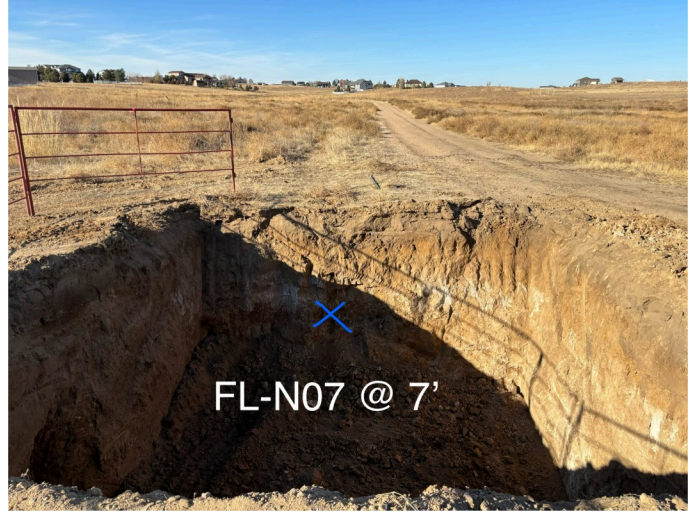
Facing southeast

R5 - P1



Looking west

R6 - P1



Looking north

R7 - P1



Looking north

R8 - P1



Looking north

R14 - P1



Facing East

R15 - P1



Facing South

R16 - P1



Looking west

R18 - P1



Looking southwest

R20 - P1



Looking southeast

R22 - P1



Looking east

R25 - P1



Facing north

R26 - P1



Facing north

R28 - P1



Facing east

R30 - P1



Facing south



Facing west

Other observations regarding wellheads

**Summary**

Was impacted soil identified?	Yes - less than 10 cubic yards
Total number of soil samples field screened	33
Total number of soil samples collected	33
Highest PID Reading	3.9
Total number of soil samples submitted to lab for analysis	33
Was groundwater encountered during the investigation?	No
Measured depth to groundwater	
Was remedial groundwater removal conducted?	
Date Groundwater was encountered	
Commencement date of removal	
Seen on groundwater?	
Free product observed?	
Volume of groundwater removed prior to sampling	
Volume of groundwater removed post sampling	
Total volume of groundwater removed	
Total number of groundwater samples collected	
Total number of groundwater samples submitted to lab for analysis	



## Wellhead Closure Checklist 2

Project	Occidental Petroleum
ID	352922
Survey Date	06/06/2023
User	Chris Bodie
Additional Attachments (Optional)	Flowline Closure
Site Name	REI H 9-32D
Remediation Project #	28512

### Wellhead Information

Weather	73° sunny
Client	Oxy
Location	
Latitude	40.235462
Longitude	-104.67658
General Condition of Site	Good
USCS Soil Type	<i>Sandy Clay / Sandy Clay</i>
Estimated Depth to Groundwater	<20'
Hydrocarbon Impacted Soils / Spills	None observed
Salt Crusted Soils or Impacted Vegetation	None observed

### Soil Samples

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Other Visual	Olfactory	Other Olfactory	Direction	Equipment Name	Other Equipment Type
R1	06/06/2023	01:44 PM	WH-B01@6'	0.8	N.S		N.O			Wellhead	
R2	06/06/2023	01:45 PM	WH-N01@5'	1.1	N.S		N.O			Wellhead	
R3	06/06/2023	01:46 PM	WH-S01@5'	1.3	N.S		N.O			Wellhead	
R4	06/06/2023	01:47 PM	WH-E01@5'	0.9	N.S		N.O			Wellhead	
R5	06/06/2023	01:48 PM	WH-W01@5'	0.7	N.S		N.O			Wellhead	
R6	06/06/2023	01:49 PM	WHS-N01@3"	0.4	N.S		N.O			Wellhead Surface	
R7	06/06/2023	01:50 PM	WHS-S01@3"	1.2	N.S		N.O			Wellhead Surface	
R8	06/06/2023	01:51 PM	WHS-E01@3"	1.0	N.S		N.O			Wellhead Surface	

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Other Visual	Olfactory	Other Olfactory	Direction	Equipment Name	Other Equipment Type
R9	06/06/2023	01:52 PM	WHS-W01@3"	0.6	N.S		N.O			Wellhead Surface	
R10	06/06/2023	01:55 PM	FL-B01@4'	1.5	N.S		N.O			Flowline at Wellhead	
R11	06/06/2023	03:10 PM	WH-BG01@3'	0.4	N.S		N.O			Wellhead Background	
R12	06/06/2023	03:12 PM	WH-BG01@6'	1.3	N.S		N.O			Wellhead Background	
R13	06/06/2023	03:14 PM	WH-BG02@3'	1.4	N.S		N.O			Wellhead Background	
R14	06/06/2023	03:16 PM	WH-BG02@6'	1.6	N.S		N.O			Wellhead Background	
R15	06/06/2023	03:18 PM	WH-BG03@3'	1.0	N.S		N.O			Wellhead Background	
R16	06/06/2023	03:20 PM	WH-BG03@6'	1.5	N.S		N.O			Wellhead Background	
R17	06/06/2023	03:22 PM	WH-BG04@3'	1.4	N.S		N.O			Wellhead Background	
R18	06/06/2023	03:24 PM	WH-BG04@6'	1.7	N.S		N.O			Wellhead Background	
R19	06/06/2023	03:14 PM	FL-B02@4'	0.8	N.S		N.O			Flowline	
R20	06/07/2023	03:18 PM	FL-B03@4'	0.3	N.S		N.O			Flowline	
R21	06/07/2023	13:38	FL-B04@4'	0.6	N.S		N.O			Flowline	
R22	06/07/2023	14:00	FL-B05@4'	0.6	N.S		N.O			Flowline	
R23	06/07/2023	14:17	FL-B06@4'	0.5	N.S		N.O			Flowline	
R24	06/07/2023	15:19	FL-B07@4'	0.9	N.S		N.O			Flowline	
R25	06/07/2023	15:53	FL-B08@4'	19.0	N.S		Slight HC Odor			Flowline at Separator	
R26	08/10/2023	12:32 PM	FL-B06@7'	0.8	N.S		N.O			Flowline	
R27	08/10/2023	12:34 PM	FL-N01@4'	0.6	N.S		N.O			Flowline	
R28	08/10/2023	12:36 PM	FL-S01@4'	0.5	N.S		N.O			Flowline	
R29	08/10/2023	12:38 PM	FL-E01@4'	0.7	N.S		N.O			Flowline	
R30	08/10/2023	12:40 PM	FL-W01@4'	0.4	N.S		N.O			Flowline	
R31	08/10/2023	12:44	FL-	1.1	N.S		N.O			Flowline	

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Other Visual	Olfactory	Other Olfactory	Direction	Equipment Name	Other Equipment Type
	2023	PM	B07@7'								
R32	08/10/2023	12:46 PM	FL-N02@4'	0.6	N.S		N.O			Flowline	
R33	08/10/2023	12:48 PM	FL-S02@4'	0.9	N.S		N.O			Flowline	
R34	08/10/2023	12:50 PM	FL-E02@4'	0.4	N.S		N.O			Flowline	
R35	08/10/2023	12:52 PM	FL-W02@4'	0.5	N.S		N.O			Flowline	
R36	08/10/2023	01:10 PM	FL-B08@7'	0.4	N.S		N.O			Flowline	
R37	08/10/2023	01:12 PM	FL-N03@4'	0.2	N.S		N.O			Flowline	
R38	08/10/2023	01:14 PM	FL-S03@4'	0.2	N.S		N.O			Flowline	
R39	08/10/2023	01:16 PM	FL-E03@4'	0.1	N.S		N.O			Flowline	
R40	08/10/2023	01:18 PM	FL-W03@4'	0.3	N.S		N.O			Flowline	
R41	08/10/2023	12:54 PM	FL-BG01@5'	0.7	N.S		N.O			Other	Flowline background
R42	08/10/2023	12:56 PM	FL-BG01@7'	0.9	N.S		N.O			Other	Flowline background
R43	08/10/2023	12:58 PM	FL-BG02@5'	0.5	N.S		N.O			Other	Flowline background
R44	08/10/2023	01:00 PM	FL-BG02@7'	1.0	N.S		N.O			Other	Flowline background
R45	08/10/2023	01:02 PM	FL-BG03@5'	1.1	N.S		N.O			Other	Flowline background
R46	08/10/2023	01:04 PM	FL-BG03@7'	1.3	N.S		N.O			Other	Flowline background
R47	09/19/2023	09:30 AM	FL-B06@10'	0.9	N.S		N.O			Flowline	
R48	09/19/2023	09:32 AM	FL-N04@7'	0.5	N.S		N.O			Flowline	
R49	09/19/2023	09:34 AM	FL-E04@7'	0.6	N.S		N.O			Flowline	
R50	09/19/2023	09:36 AM	FL-S04@7'	1.1	N.S		N.O			Flowline	
R51	09/19/2023	09:38 AM	FL-W04@7'	0.4	N.S		N.O			Flowline	
R52	11/01/2023	09:30 AM	FL-N05@10'	0.3	N.S		N.O			Flowline	
R53	11/01/2023	09:32 AM	FL-E05@10'	0..2	N.S		N.O			Flowline	

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Other Visual	Olfactory	Other Olfactory	Direction	Equipment Name	Other Equipment Type
R54	11/01/2023	09:34 AM	FL-B06@12'	0.2	N.S		N.O			Flowline	

Photo(s)

R1 - P1



Looking south

R2 - P1



Looking north

R4 - P1



Looking east

R5 - P1



Looking west

R11 - P1



Looking south

R12 - P1



R13 - P1



Looking south

R14 - P1



R15 - P1



Looking northeast

R17 - P1



Looking southeast

R19 - P1



Looking south

R20 - P1



Looking west

R21 - P1



R22 - P1



R23 - P1



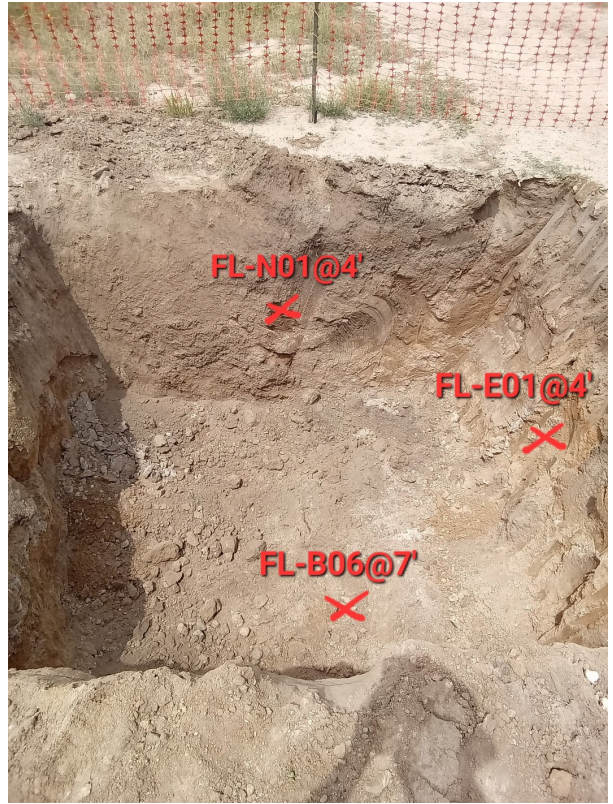
R24 - P1



R25 - P1



R27 - P1



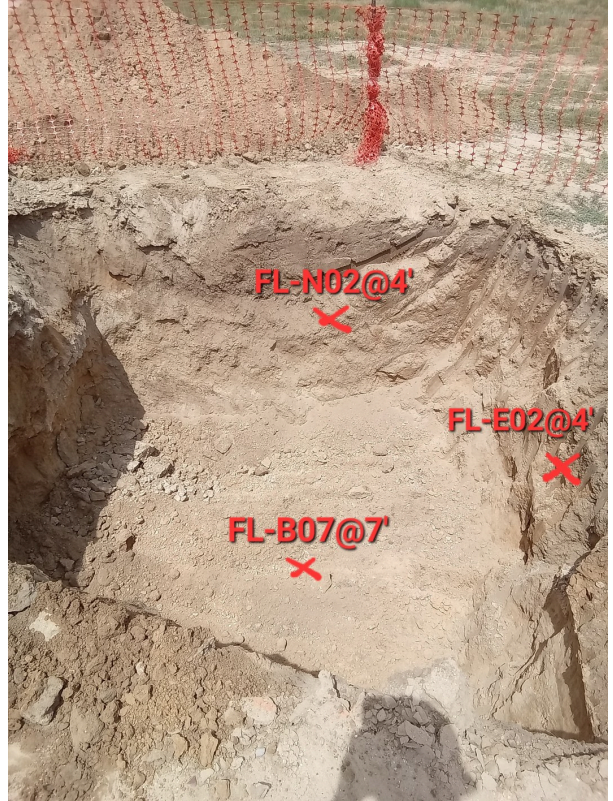
Looking north

R28 - P1



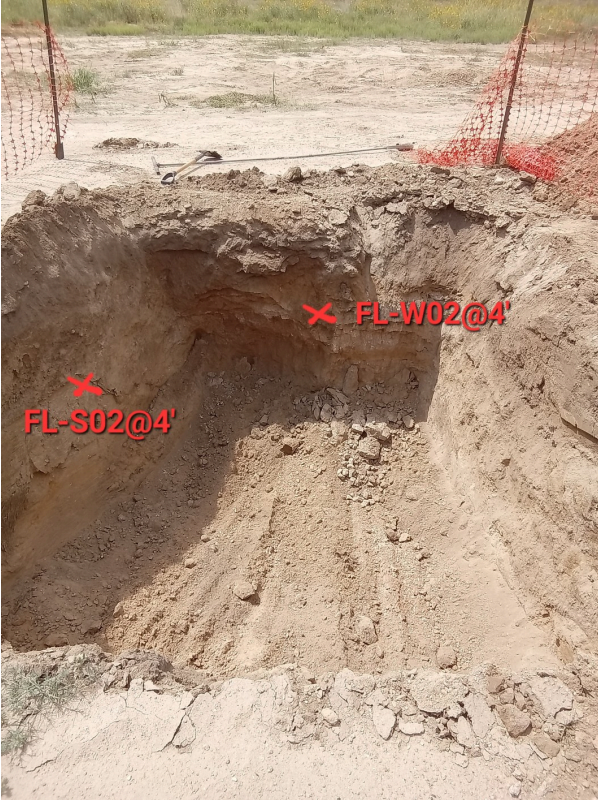
Looking south

R31 - P1



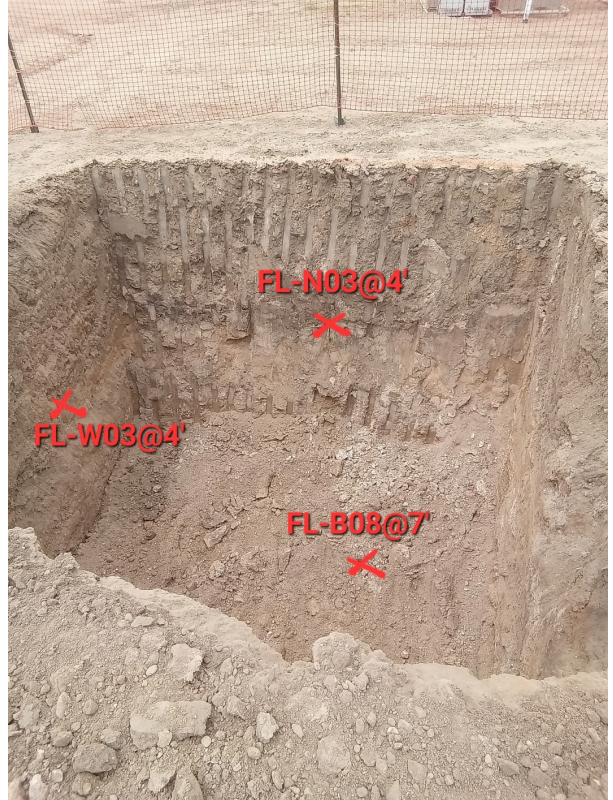
Looking north

R33 - P1



Looking west

R37 - P1



Looking north

R38 - P1



Looking east

R41 - P1



Looking west

R43 - P1



Looking east

R45 - P1



Looking south

R47 - P1



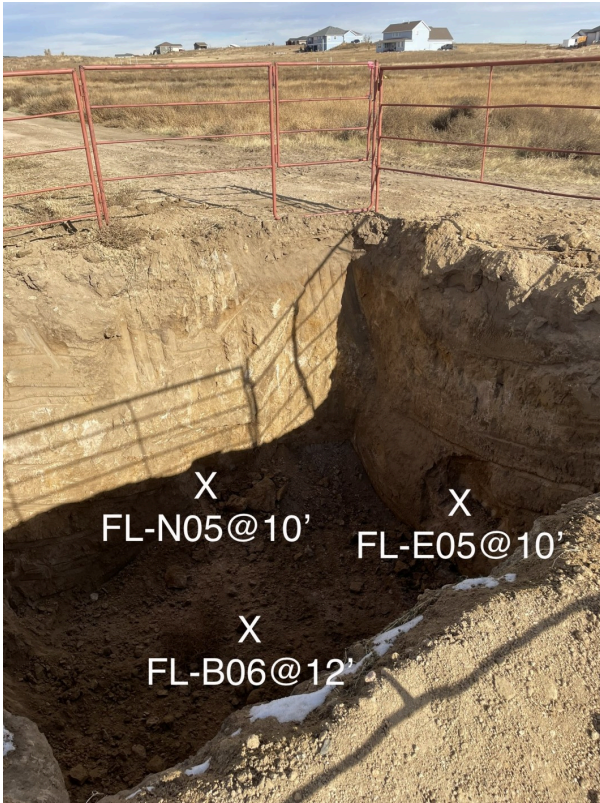
Looking northeast

R50 - P1



Looking southwest

R52 - P1



Facing Northeast

Other observations regarding wellheads

Summary

Was impacted soil identified?	Yes - less than 10 cubic yards
Total number of soil samples field screened	54
Total number of soil samples collected	54
Highest PID Reading	19.0
Total number of soil samples submitted to lab for analysis	42
Was groundwater encountered during the investigation?	No

Measured depth to groundwater

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Was remedial groundwater removal conducted?

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Date Groundwater was encountered

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Commencement date of removal

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Sheen on groundwater?

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Free product observed?

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Volume of groundwater removed prior to sampling

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Volume of groundwater removed post sampling

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Total volume of groundwater removed

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Total number of groundwater samples collected

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Total number of groundwater samples submitted to lab for analysis

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REI H9-32D, 33D, UPRC 9-12J5 Photo Log



