



Soil Gas Monitoring Field Data Sheet

Install Date 3/16/2022
Monitor Date 3/17/2022

Installed By TS & SC
Monitored By TS

Client Occidental Petroleum Project SG_P_Ville_Federal_5_7

O&G Well Name P Ville Federal 5-7 API# 05-123-30764 Locates ID# A206300837

County Weld State Colorado Qtr-Qtr SENW Sec 7 Twn 3N Rng 66W

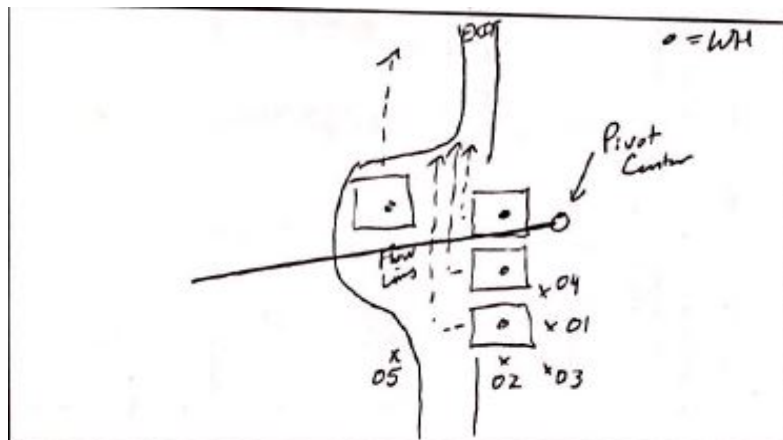
Elevation 4790 Latitude 40.242142 Longitude -104.825033

Billing/WO# 4500624453 AE2 Project Code OXY.CO.0577.01

Facility ID 414497 Anticipated P&A Date 6/3/2022

Directions to Well: From intersect go E 0.25mi cont S/ 0.25 mi into P VILLE FEDERAL 5-7

Site Map: N ↑



GEM 5000 Calibration

Calibration Gas	Time
Fresh Air	1432
50 ppm CO, 10 ppm H2S	1435
15% CH4, 15% CO2, Bal N2	1434

Weather

Install 45° F, Overcast and Dry
Monitor 40° F, Overcast and Muddy

Installation Information

SGM Point ID	Time	Distance & Direction from WH	Lat/Long	Depth	Comments
SVP01_30764	1145	10 ft E	40.242192, -104.824993	60"	
SVP02_30764	1150	10 ft S	40.242200, -104.825108	60"	
SVP03_30764	1155	15 ft SE	40.242211, -104.825086	60"	
SVP04_30764	1200	20 ft NE	40.242279, -104.824788	60"	
SVP05_30764	1205	25 ft SW	40.242121, -104.825080	60"	

Bump Test

Time		CH4 (%)	CO2 (%)	O2 (%)		H2S (ppm)		CO (ppm)	
1436	Calibration Gas	15	15	0	20.9	0	10	0	50
	Readings	15.0	14.9	0	21.0	0	8	0	47

GEM 5000 Field Readings

SGM Point ID	Time	CH4 (%)	CO2 (%)	O2 (%)	H2S (ppm)	CO (ppm)	Comments
SVP01_30764	1439	0	6.9	10.9	0	1	
SVP02_30764	1442	0	9.5	5.4	0	1	
SVP03_30764	1445	0	6.1	12.5	0	0	
SVP04_30764	1448	0	6.5	10.9	0	1	
SVP05_30764	1452	0	8.8	8.1	0	1	

Site Comments: Lower than typical O2 levels and higher than typical CO2 levels observed when monitoring at site. Monitoring points left in place for potential re-sample.



Soil Gas Monitoring Field Data Sheet

Install Date

4/4/2022

Installed By

TS & SC

Monitor Date

4/7/2022

Monitored By

TS

Client

Occidental Petroleum

Project

SG_P_Ville_Federal_5_7

O&G Well Name

P Ville Federal 5-7

API#

05-123-30764

Locates ID#

A208901598

County

Weld

State

Colorado

Qtr-Qtr

SENE

Sec

7

Twn

3N

Rng

66W

Elevation

4790

Latitude

40.242142

Longitude

-104.825033

Billing/WO#

4500624453

AE2 Project Code

OXY.CO.0577.01

Facility ID

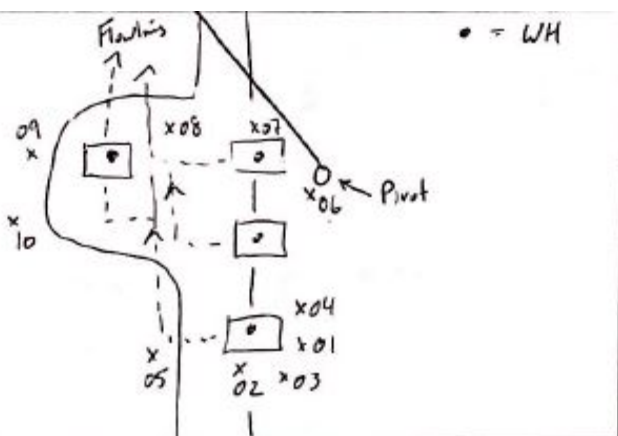
414497

Anticipated P&A Date

6/3/2022

Directions to Well: From intersect go E 0.25mi cont S/ 0.25 mi into

Site Map: N ↑



GEM 5000 Calibration

Calibration Gas	Time
Fresh Air	0759
50 ppm CO, 10 ppm H2S	0803
15% CH4, 15% CO2, Bal N2	0801

Weather

Install 50° F, Sunny and dry

Monitor 40° F, Slight Overcast and Dry

Installation Information

SGM Point ID	Time	Distance & Direction from WH	Lat/Long	Depth	Comments
SVP01_30764	1145	10 ft E	40.242192, -104.824993	60"	Installed 3/16/2022
SVP02_30764	1150	10 ft S	40.242200, -104.825108	60"	Installed 3/16/2022
SVP03_30764	1155	15 ft SE	40.242211, -104.825086	60"	Installed 3/16/2022
SVP04_30764	1200	20 ft NE	40.242279, -104.824788	60"	Installed 3/16/2022
SVP05_30764	1205	25 ft SW	40.242121, -104.825080	60"	Installed 3/16/2022
SVP06_30764	1055	See Comments	40.242205, -104.825155	60"	18 ft E of P Ville Federal 21-7
SVP07_30764	1100	See Comments	40.242301, -104.825064	60"	17 ft N of P Ville Federal 21-7
SVP08_30764	1105	See Comments	40.242062, -104.829636	60"	25 ft NE of Salamanca Frank GU 1
SVP09_30764	1110	See Comments	40.242254, -104.825178	60"	12 ft W of Salamanca Frank GU 1
SVP10_30764	1115	See Comments	40.242214, -104.825192	60"	23 ft S of Salamanca Frank GU 1

Bump Test

Time		CH4 (%)	CO2 (%)	O2 (%)	H2S (ppm)	CO (ppm)
0804	Calibration Gas	15	15	0	20.9	0
	Readings	14.7	15.8	0	20.8	9

GEM 5000 Field Readings							
SGM Point ID	Time	CH4 (%)	CO2 (%)	O2 (%)	H2S (ppm)	CO (ppm)	Comments
SVP01_30764	0813	0	7.9	10.2	0	0	
SVP02_30764	0818	0	11.9	4.3	0	1	
SVP03_30764	0821	0	7.6	10.6	0	0	
SVP04_30764	0826	0	7.4	10.8	0	1	
SVP05_30764	0829	0	10.0	7.6	0	0	
SVP06_30764	0832	0	9.0	8.9	0	1	
SVP07_30764	0841	0	7.1	11.2	0	1	
SVP08_30764	0843	0	9.8	5.2	0	1	
SVP09_30764	0846	0	5.3	15.2	0	1	
SVP10_30764	0850	0	5.4	14.0	0	1	
Site Comments: SVP01-05 still intact from 3/16/22 installs. SVP06-10 locations selected with assistance from Erik Mickelson. SVP selected to encompass entire pad, which contains four well heads. SVP06 and 07 near P Ville Federal 21-7 (southern most well head on site) and SVP08-10 near the Salamanca Frank GU 1 (western most well head on site. Erik Mickelson and Jaren Bartokyl of OXY on site for 4/7/22 monitoring effort. Low O2 and high CO2 seen accross all SVPs. Site left installed until further instruction.							

Soil Vapor Screening Field Form

Site Information	
Site Name	P. Vile Federal 5-7 WH
Date	07/14/2022
Sampler	Ryan Kritzberger
Weather	Partly Cloudy, 80's

Gas Meter Information	
Make/Model	GEM 5000
S/N	5128

Calibration Information	
Gas	Time
Pure N ₂	0833
Fresh Air	0830
50 ppm CO, 10 ppm H ₂ S	0838
15% CH ₄ , 15% CO ₂ , Bal N ₂	0839

Site Sketch

Bump Test						
Time		CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)
0854	Calibration Gas	15.0	15.0	0.0	0.0	0.0
	Readings	14.9	14.9	0.1	0.0	0.0

Field Readings										
Point ID	Time	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	Purge Length	Sampled? (Y/N)	Sample ID	Comments
SVP02	0941	0.0	5.4	12.1	0	0	76 sec	Y	SVP02-0714-0941	
SVP04	1014	0.0	7.5	5.0	0	1	70 sec	Y	SVP04-0714-1014	
SVP06	1012	0.0	5.7	8.0	0	1	70 sec	Y	SVP06-0714-1012	
SVP08	1005	0.0	13.8	3.8	0	1	60 sec	Y	SVP08-0714-1005	
SVP09	1002	0.0	5.9	9.7	1	1	67 sec	Y	SVP09-0714-1002	
SVP10	0956	8.4	14.2	12.4	0	0	70 sec	Y	SVP10-0714-0956	
SVP11	0934	0.0	12.1	2.7	0	0	72 sec	Y	SVP11-0714-0934	
SVP12	0929	0.0	14.0	2.8	0	1	70 sec	Y	SVP12-0714-0929	
SVP13	0948	7.3	7.4	7.1	0	3	80 sec	Y	SVP13-0714-0948	
SVP14	1009	0.0	14.6	2.1	1	2	65 sec	Y	SVP14-0714-1009	

Notes and Observations