



# Water Quality Field Data Sheet

Sample Date

11/16/2020

Sampler(s)

JB

Operator	Occidental Petroleum Corporation (OXY)	O&G Well / Project Name	GWA - Beierle 26-1HZ		
Sample Reason	Voluntary baseline				
Sample Name	Knodel 68206	Permit	68206	Receipt	9065126
Facility ID	757471				
QQ	SESE	Sec	26	Twn	1N
Rng	66W	County	Weld	State	CO
Use	Household use only				
DWR Permitted UTMS:	UTM E	522423.2	UTM N	4429589	Z13
Field Measured Elevation (ft)	5093				
Field Verified Location:	UTM E	522601.8	UTM N	4429537.9	Z13
Lat	40.01574094	Long	-104.7351563	NAD 83	
Approximate Distance to the Oil & Gas well pad	0.9 mi		O&G API Number	05-123-40856	

## Owner Information

Landowner:	Mailing Address:	Physical Address:	Individuals Present During Sampling
Ronald and Rhonda Knodel	16911 County Road 4	16911 County Road 4	Mr. Knodel, Worker/Friend
Phone: 303-659-0978	Brighton, CO 80603-9738	Brighton, CO 80603	
Cell:	Alt Contact:		

## Well Information

Well Depth (ft)	140	Water Level (ft)	60	Surface Casing Diameter (in)	6.625	Drop Pipe Diameter (in)	Unk
Pump Type	Submersible	Pump Manufacturer	Berkeley	HP	0.75	Phase	Unk
Pump Intake (ft)	125						
Well House	No	Vault	No	Pitless	Yes	Surf. Discharge Pipe	No
Confined Space	No		Access for WL	Yes			
Well Seal	Yes	Type/Manufacturer	Monitor			Vented	Yes
Gas Flow from Vent	No						
Storage Tank	No	Storage Tank Volume (gal)	-	Pressure Tank	Yes	Pressure Tank Volume (gal)	Unk
Ground Slope Near Well?	No		Area Desc/Proximity	North of white barn ~50ft under blue tub			
Condition of well	Good						
Initial LEL%	0	x0.05= CH4	0	Post-Sample LEL%	0	x0.05= CH4	0
Gas Reading Location	Wellhead						
Water Use	Daily Domestic		Treatment	No		Used for drinking?	Yes

## Sample Information

Clock Time	Elapsed Time	Flow Rate (calc)	Flow (gal/sec)	Temp (°C)	pH	Sp. Con. (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity	Color	Odor	Sediment	Bubbles / Effervescence	LEL (%)	
<b>Pre-Purge Reading</b>															
9:20	0:00	4.00	1	15	13.5	8.41	662	118.2	2.87	0.02	Clear	None	Sand	Effervescence	0
<b>Post-Purge Readings</b>															
10:06	0:46	0.30	1	200	14.2	8.45	627.8	84.4	0.08	0.02	Clear	None	None	Effervescence	0
10:09	0:49	0.30	1	200	14.1	8.45	627.2	78.3	0.05	0.02	Clear	None	None	Effervescence	0
10:12	0:52	0.30	1	200	14.0	8.44	626.8	73.3	0.04	0.02	Clear	None	None	Effervescence	0
10:15	0:55	0.30	1	200	13.9	8.44	626.6	67.7	0.03	0.02	Clear	None	None	Effervescence	0
10:18	0:58	0.30	1	200	13.9	8.43	626.2	62.6	0.02	0.02	Clear	None	None	Effervescence	0
Sample Location	Red spigot west side of white barn			Tanks Bypassed?	No	Flow Cell Used?	Yes	Avg Flow Cell Rate (gpm)	0.30						
Initial Purge Volume (g)	120	Purged with Flow Cell (g)	4	Total Volume Purged (g)	124	Sampling Flow Rate (gpm)	0.5								
Sample/Visit Time	10:18	Weather	59°F Sunny			Field Conditions	Dry								

## Calibration Log

Multi-meter - Select Meter Used ☐ In-Situ Smartroll ☒ YSI Pro Plus

Time	Cal	Post	pH (std units)				SC (µmhos/cm2 @ 25°C)			D.O. 100%	Temp (°C)	ORP Cal Value	ORP reading mV	Comments
			4.00	7.00	9.00	10.00	447	1413	8974					
8:00	X		4.05	6.98	-	10.03	467	1413	8847	86.3	10.9	230	230	
11:38		X	4.08	6.99	9.01	-	456.4	1397	8820	108.9	12.6	-	227.2	

Turbidimeter - Geotech Portable Turbidity Meter

Time	Cal	Post	Turbidity (NTU)				Comments
			<1	20.0	100	800	
8:00	X		0.02	22.4	103	827	
11:38		X	0.02	18.7	100	813	