Active Drilling Inspection Form

Section 1: General Information	
Operation Data	**Inspection Data**
Operator Name Snake River Oil+Gas, LLC	Inspector Name ~~James Thum~~ Dave Schwarz
Well Name Irvin #1-19, USWN 11-075-20039	Area Office Boise / Director's
Authorized Contact Clint Harman 713-822-3167 Nathan Caldwell 870-904-7305 Graham#4: 707-396-6248	Inspection Date 6 Oct 2022
County Payette	Report Date 17 Oct 2022
Inspector's Signature: Dave Schwarz **Date of Signature:** 6 Oct 2022	**Inspection Summary:** ☒ Operation appeared to be in compliance at the time of the inspection. ☐ Issues of concern identified at the time of the inspection.

Location Description: 2.75 miles SE from Whitley Drive / NW 16th intersection in Fruitland, Idaho. Survey location Latitude 44.013424, Longitude -116.869995 T8N R4W Section 19 SW ¼. Directions from Boise: I-84 westbound to Hwy 95 North. Right on Hwy 30 at the Chevron station 2.0 miles to Custer Road. Left on Custer Road 2.6 miles to access road. Well pad entrance 450 feet north of the intersection of Custer Road and NW 3rd Avenue, on the right, marked by orange cones and flagging. NOTE: Drive slowly through entrance property- children and animals are present.

Scope of Inspection (check all that apply and, or, were verified during the inspection):

☐ Well site ☐ Tank Battery ☒ Casing ☐ BOP ☐ Other:

If well site, is the well a multiple zone completion? ☐ Yes ☒ No

Section 2: Pits — IDAPA 20.07.02.230

1. Are pits located on site? ☐ Yes ☒ No
   - A. If yes;
     - i. Permitted as: ☐ Short-term pit ☐ Long term pit
     - ii. Use Corresponding Pit Inspection Form and attach with this inspection.

Section 3: Identification of Wells — IDAPA 20.07.02.300

1. Is a lease access road sign visible where the principal lease road enters the lease? ☒ Yes ☐ No
   - A. If yes;
     - i. Does the sign show:
       - a. The name of the lease? ☒ Yes ☐ No
       - b. The name of the owner or operator? ☒ Yes ☐ No
       - c. The Section, Township and Range? ☒ Yes ☐ No
2. Is a legible well site sign visible near the well? ☒ Yes ☐ No
   - A. If yes;
     - i. Does the well site sign identify the;
       - a. Operator? ☒ Yes ☐ No
       - b. Permit number? ☒ Yes ☐ No

c. Well name? ☒ Yes ☐ No

d. Emergency telephone number? ☒ Yes ☐ No

3. For multiple completions, is there a sign for each well head connection? ☒ N/A ☐ Yes ☐ No

Section 4: Location Operations — IDAPA 20.07.02.301

1. Is the well site fenced? ☒ N/A ☐ Yes ☐ No
(Answer N/A if the well has not been completed and fencing is erected)
A. If yes;
i. Was the fence installed within 60 days of completing the facility? NA ☐ Yes ☐ No
ii. Does the fence appear to:
a. Maintain safe working conditions? NA ☐ Yes ☐ No
b. Secure the well site? ☐ Yes ☐ No
c. Prevent access by wildlife and livestock? ☐ Yes ☐ No

2. Are chemicals stored and maintained in accordance with all applicable MSDS requirements? ☐ N/A ☐ Yes ☐ No

3. Are all materials related to operations palletized? ☐ Yes ☐ No

4. Do all vehicles or materials on the site appear to be in use? ☒ Yes ☐ No

5. Is there less than 5% vegetation on site? ☒ Yes ☐ No

6. Is the site free from all trash, debris, or scrap metal on site? ☒ Yes ☐ No
A. If no, is all trash, debris and scrap metal pending removal kept in a wind proof container and appear emptied regularly? ☒ N/A ☐ Yes ☐ No
B. If trash or debris constitutes a fire hazard, is it removed to at least 100 feet from the facility, tanks or separators? ☒ N/A ☐ Yes ☐ No

Section 5: Accidents and Fires — IDAPA 20.07.02.302

1. Is the emergency response plan available for use or inspection? ☒ Yes ☐ No
A. If yes, does the operation appear to be consistent with the response plan? ☒ Yes ☐ No

2. Is the location free of evidence of recent fires? ☒ Yes ☐ No
A. If no, have they been properly reported? ☒ N/A ☐ Yes ☐ No

3. Ask for a spill prevention and countermeasures plan (SPCC can be located in company office). Are they aware of it? ☒ Yes ☐ No

Section 9: Tank Batteries — IDAPA 20.07.02.420

1. Are there tank batteries located on site? ☐ Yes ☒ No
A. If yes, are all tank batteries located at least 300 feet from any existing: NA
i. Occupied structures? ☐ Yes ☐ No
ii. Water wells? ☐ Yes ☐ No
iii. Canals? ☐ Yes ☐ No
iv. Ditches? ☐ Yes ☐ No

v. Natural or ordinary high water mark of surface waters? ☐ Yes ☐ No

B. Is location at least 50 feet from highways when measured from outermost portion of the tank dike? ☐ Yes ☐ No

C. Are all tanks containing produced fluids or crude oil surrounded by tank dikes ☐ Yes ☐ No

D. Are all tanks equipped to receive produced fluids surrounded by tank dikes? ☐ Yes ☐ No

i. If yes;

a. Do the dikes have a capacity of at least 1.5 times the volume of the largest tank? ☐ Yes ☐ No

b. Is all piping and manmade improvements that perforate the dike wall or tank battery floor sealed to a minimum radius of 12" from outside edge of the piping or improvement? ☐ Yes ☐ No

c. Are valves and quick-connect couplers at least 18" from inside wall of tank dike? ☐ Yes ☐ No

d. Is vegetation on top and outside surface properly maintained? ☐ Yes ☐ No

e. Is a ladder or other permanent device installed over the tank dike to access the containment reservoir? ☐ Yes ☐ No

f. Is containment reservoir free of vegetation, storm water, produced fluids, other oil and gas field related debris, trash or flammable material? ☐ Yes ☐ No

NA

E. Do drain lines have a valve installed, closed and capped off if not in use? ☐ Yes ☐ No

Section 10: Casing **IDAPA 20.07.02.310**

What casing string are you inspecting? Surface (Required) Intermediate (Optional) Production (Optional)

SURFACE

1. Do the casing and cement match those approved on the permit and do they conform to API SPEC 5CT and API SPEC 10A? ☐ Yes ☐ No

A. Is the conductor casing length a minimum of 40' below ground surface? ☒ Yes ☐ No

B. Surface Casing. (Surface casing is required to be witnessed by the Dept.)

i. Was IDL notified in writing 72 hours before planned spud activity? ☐ Yes ☐ No

ii. Was IDL notified in writing 24 hours in advance of cementation? ☐ Yes ☐ No

iii. Is the surface casing set to 10% of the proposed total depth of the well? ☐ Yes ☐ No

iv. Is the surface casing seated through a sufficient series of low permeability, competent lithologic units, to insure a solid anchor for BOP equipment and protection of usable ground water? ☐ Yes ☐ No

v. Is the casing cemented solid to surface by pump and plug, displacement, or other approved method? ☐ Yes ☐ No

vi. Were surface samples of cement cured prior to drilling activity continuing? ☐ Yes ☐ No

C. Intermediate Casing. (IDL may witness and document)

i. Was IDL notified in writing 24 hours in advance of cementation? ☐ Yes ☐ No

ii. Was casing run to surface or lapped at least 100' into of the next largest casing? ☐ Yes ☐ No

iii. Is casing cemented solidly to surface or the top of the casing? ☐ Yes ☐ No

iv. Was casing cemented and pressure tested before cement plugs were drilling? ☐ Yes ☐ No

NA

D. Production Casing. (IDL may witness and document)

i. Was IDL notified in writing 24 hours in advance of cementation? ☐ Yes ☐ No

ii. Was casing run to surface or lapped at least 100' into of the next largest casing? ☐ Yes ☐ No

iii. Is casing cemented solidly to surface or the top of the casing? ☐ Yes ☐ No

iv.	Was casing cemented and pressure tested before cement plugs were drilling?	☐ Yes	☐ No
v.	If the bottom plug will be drilled out, is the open hole interval going to be completed?	☐ Yes	☐ No

Section 10: BOP — IDAPA 20.07.02.310

NA - Did Not Inspect

1.	Is the BOP the same as the schematic submitted in the drilling permit?	☐ Yes	☐ No
2.	Does the accumulator maintain a pressure capacity reserve that provides for operation of the hydraulic preventers and valves with no outside source?	☐ Yes	☐ No
3.	Is all BOP equipment, choke lines, and manifolds installed above ground level?	☐ Yes	☐ No
4.	If casing heads and spools are installed below ground level, are the visible and accessible?	☐ Yes	☐ No
5.	Does the BOP equipment, and related casing heads and spools have a vertical bore that is no smaller that the inside diameter of the casing to which they are attached?	☐ Yes	☐ No
6.	Does the working pressure rating of the BOP equal or exceed the maximum anticipated pressure to be contained at surface?	☐ Yes	☐ No
7.	Was IDL. advised at least 24 hrs in advance of the BOP test?	☐ Yes	☐ No
8.	Is an affidavit covering the initial pressure tests after installation signed and provided to the Dept?	☐ Yes	☐ No
9.	Have the studs on the well head and BOP flanges been tested every week for tightness?	☐ Yes	☐ No
10.	Are hand wheels for locking screws installed and operational?	☐ Yes	☐ No
11.	Is the entire BOP and well head assembly clean of mud and ice?	☐ Yes	☐ No
12.	Is a drill stem safety valve present with the correct thread for the pipe in use?	☐ Yes	☐ No
13.	Is a drillstem float valve installed in bit sub or as close to bit as reasonably possible?	☐ Yes	☐ No

Section 12: Inspection Comments

Comments and Issues of Concern: Conductor set 9/26/2022; inspected by IDL 9/29/2022. Operator expected to begin RU 9/30/2022, spud for surface casing 10/2/2022. ~~Surface~~ Surface casing set 6 Oct 2022

- See Notes from Dave Schwarz

Section 13: Attachments

List any and all attachments including photos, samples, documents, etc:

- 6 Oct 2022 Notes by Dave Schwarz
- Photo of Cement Returns
- Resource Cementing Job Sheet

Cement Returns during cementing of surface casing of Irvin 1-19. Estimated 85 barrels of cement returns.

RESOURCE CEMENTING

Snake River Oil and Gas

Well: ML Irvin 1-19; 9.625" Surface Casing

Thursday, October 06, 2022

Conductor Casing: 16" 62.58 lb. /ft. @ 120' MD; ID=15.250"

12.250" Open Hole @ 1,140' (120% excess)

Production Casing: 9.625" 40 lb. /ft. @ 1,130', MD; ID= 8.835"; 0.0758bbl/ft

***Float Collar 1,088.61'; Capacity = 3.14 bbl** (MW 10.1 lb. /gal)*

Estimated Job Time: 60 Minutes

Please prime up all hoses before job **begins**

1) Hold pre-job safety meeting with everyone on location. Load Top Plug

2) ~~Insert BOTTOM PLUG on casing to displace it with KCL Fluid~~ = done already

3) Fill Lines with 2 bbl of KCL Fluid

4) ~~Release and pump out BOTTOM PLUG~~

5) ~~Shut Down, Reload TOP PLUG and secure.~~

6) Pressure test surface lines to **2,500 psi**

7) **Pump remaining of the 20 bbl of 4% KCL Fluid @ 5 bpm**

8) **Mix and Pump 147.5 bbl of 12.5 ppg Lead Cement @ 5 bpm**

9) Shut down, and Drop Plug and Start Displacement

10) **Displace Top Wiper Plug with 82.60 bbl of MUD @ 5 bpm**

- Monitor returns and prepare to adjust rate if lost circulation is observed.
- Slow rate to 2 bpm last 10 bbl to Bump Plug

9 Bump Plug, and Check Floats. (Monitor Cement Level in annular)

380 Sks of 12.5 ppg RC Lead Cement	***120 Sacks of 15.8 ppg TOP OUT Cement***
Density: 12.50 lb./gal	***300 Lbs. of CaCl2 on the side***
Yield: 2.18 ft³/sk	*Density: 15.8 lb./gal*
Water Requirement: 11.32 gal/sk	*Yield: 1.16 ft³/sk*
	Water Requirement: 5.01 gal/sk