

Active Drilling Inspection Form

Section 1: General Information	
Operation Data	Inspection Data
Operator Name Snake River Oil+Gas, LLC	Inspector Name James Thum
Well Name Dutch Lane #1-13; USWN 11-075-20038	Area Office Boise / Director's
Authorized Contact(s) Nate Caldwell, Operations Manager (870) 904-7305; Clint Harman (713) 822-3167	Inspection Date 12/22/2021 In: 4:10 AM Out: 10:00 AM
County Payette	Report Date 12/30/2021
Inspector's Signature: /signed/ James Thum	Inspection Summary:
Date of Signature: 12/30/2021	<input checked="" type="checkbox"/> Operation appeared to be in compliance at the time of the inspection.
<input type="checkbox"/> Issues of concern identified at the time of the inspection.	
Location Description: 2.0 miles SE from Hwy 95 and Killebrew Road intersection north of Fruitland, Idaho. Survey location Latitude 44.04031, Longitude -116.906395. Well pad entrance 2600 feet south on Dutch Lane from Killebrew Road.	
Weather: Cold and foggy (valley inversion), 25° F, calm winds	
Scope of Inspection (check all that apply and, or, were verified during the inspection):	
<input checked="" type="checkbox"/> Well site <input type="checkbox"/> Tank Battery <input checked="" type="checkbox"/> Casing <input type="checkbox"/> BOP <input checked="" type="checkbox"/> Other: Witness Surface casing per IDAPA 20.07.02.310.05	
If well site, is the well a multiple zone completion? <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No	
Section 2: Pits	IDAPA 20.07.02.230
1. Are pits located on site? Note: Paul Graham Rig #4 utilizes a closed (tank) mud system <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
A. If yes;	
i. Permitted as: <input type="checkbox"/> Short-term pit <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
A. If yes;	
i. Does the sign show:	
a. The name of the lease? <input type="checkbox"/> Yes <input type="checkbox"/> No	
b. The name of the owner or operator? <input type="checkbox"/> Yes <input type="checkbox"/> No	
c. The Section, Township and Range? <input type="checkbox"/> Yes <input type="checkbox"/> No	
2. Is a legible well site sign visible near the well? <input type="checkbox"/> Yes <input type="checkbox"/> No	
A. If yes;	
i. Does the well site sign identify the;	
a. Operator? <input type="checkbox"/> Yes <input type="checkbox"/> No	
b. Permit number? <input type="checkbox"/> Yes <input type="checkbox"/> No	
c. Well name? <input type="checkbox"/> Yes <input type="checkbox"/> No	

d. Emergency telephone number?	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. For multiple completions, is there a sign for each well head connection?	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No

Section 4: Location Operations **IDAPA 20.07.02.301**

1. Is the well site fenced? (Answer N/A if the well has not been completed and fencing is erected)	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No
A. If yes;	
i. Was the fence installed within 60 days of completing the facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No
ii. Does the fence appear to:	
a. Maintain safe working conditions?	<input type="checkbox"/> Yes <input type="checkbox"/> No
b. Secure the well site?	<input type="checkbox"/> Yes <input type="checkbox"/> No
c. Prevent access by wildlife and livestock?	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Are chemicals stored and maintained in accordance with all applicable MSDS requirements?	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3. Are all materials related to operations palletized?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4. Do all vehicles or materials on the site appear to be in use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Is there less than 5% vegetation on site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6. Is the site free from all trash, debris, or scrap metal on site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
A. If no, is all trash, debris and scrap metal pending removal kept in a wind proof container and appear emptied regularly?	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. If trash or debris constitutes a fire hazard, is it removed to at least 100 feet from the facility, tanks or separators?	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No

Section 5: Accidents and Fires **IDAPA 20.07.02.302**

1. Is the emergency response plan available for use or inspection?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
A. If yes, does the operation appear to be consistent with the response plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. Is the location free of evidence of recent fires?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
A. If no, have they been properly reported?	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No
3. Ask for a spill prevention and countermeasures plan (SPCC can be located in company office). Are they aware of it?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Section 9: Tank Batteries **IDAPA 20.07.02.420**

1. Are there tank batteries located on site? Temporary H2O tanks only	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
A. If yes, are all tank batteries located at least 300 feet from any existing:	
i. Occupied structures?	<input type="checkbox"/> Yes <input type="checkbox"/> No
ii. Water wells?	<input type="checkbox"/> Yes <input type="checkbox"/> No
iii. Canals?	<input type="checkbox"/> Yes <input type="checkbox"/> No
iv. Ditches?	<input type="checkbox"/> Yes <input type="checkbox"/> No
v. Natural or ordinary high water mark of surface waters?	<input type="checkbox"/> Yes <input type="checkbox"/> 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
- 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)

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? **120'** 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. Where surface samples of cement cured prior to drilling activity continuing? Yes No
- C. Intermediate Casing. (IDL may witness and document) **N/A**
- 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
- D. Production Casing. (IDL may witness and document) **N/A**
- 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

- 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 than 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:

Note: Section 3.1 – only signage is for the Paul Graham rig. This is an active well construction site.

Section 5: Emergency Response Plan at Entrance Guard House and Paul Graham doghouse. Response Plan is extensive (California law).

Witnessed cement returns for surface casing. Full returns to surface while onsite.

Section 13: Attachments

List any and all attachments including photos, samples, documents, etc: Photos, Resource Cementing work plan.

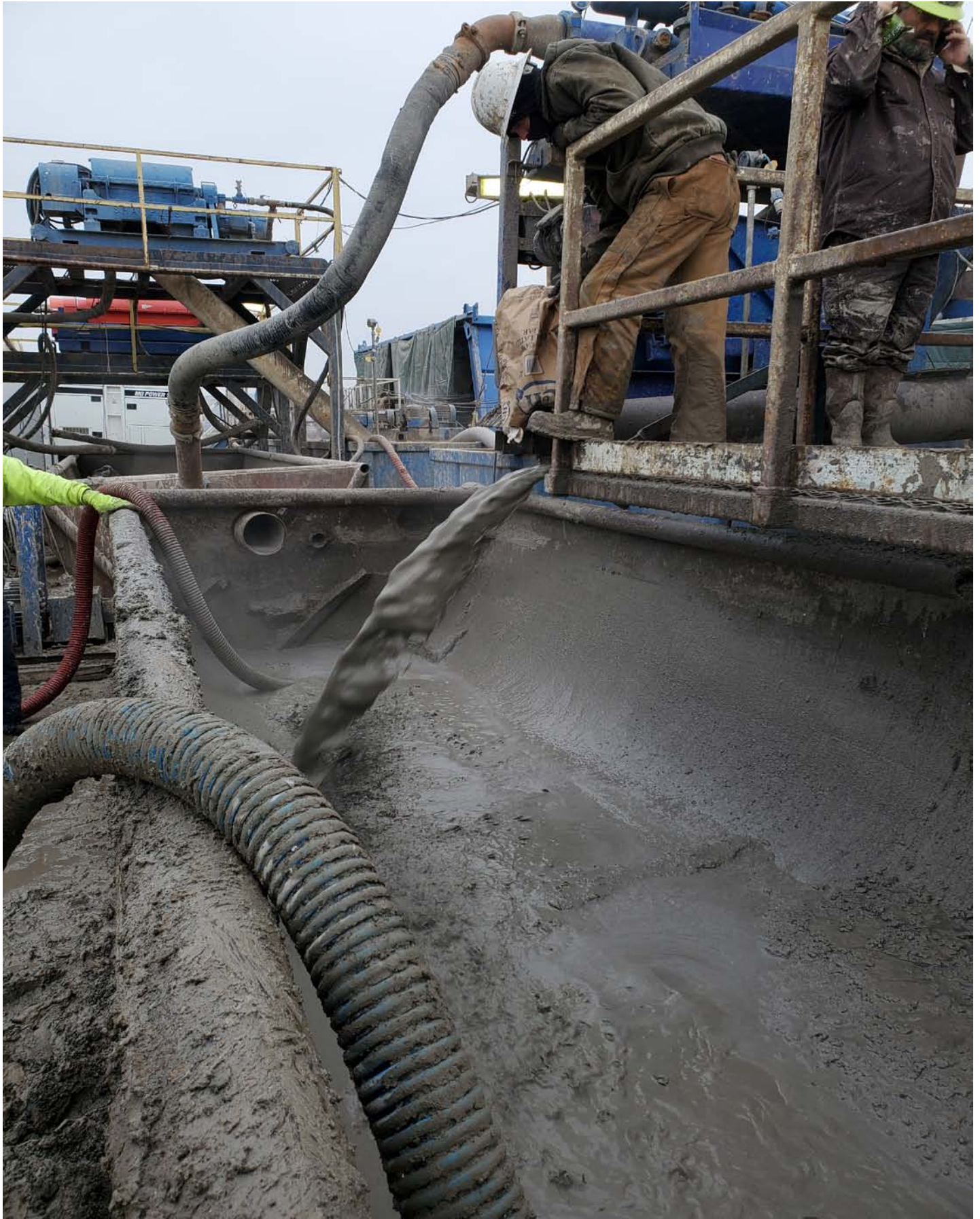
Resource Cementing equipment rig-up for surface casing cement job.



Resource Cementing equipment at start of surface casing cement job.



Cement returns observed at the mud tanks.



Mud and pressure profile plots during cementing operations.



Job Procedure

Snake River Oil & Gas

Dutch Lane #1-13

Wednesday, December 22, 2021

Previous Casing: 16"; 0 - 120' MD; ID=15.250"

Open Hole: 12.25", 120' - 1135' TMD

Surface Casing: 9.625" 40 lb/ft.; 0' - 1123' MD; ID=8.835"

Shoe Volume: 46.5' ft.; MW 9.5 lb/gal

Estimated Job Time: 90 Min.

242 BBL TOTAL VOL.
ON SITE

- 1) Hold pre-job safety meeting with everyone on location.
- 2) Fill lines **2 BBL** of KCL Spacer (NORMALLY 220 BBL, BUT LESS DUE TO GAS)
- 3) Pressure test surface lines to **2500 psi** 9:05 AM ✓
- 4) Mix and Pump **20 BBL** of **10.70 ppg RC EconoLite Scavenger Cement @ 5 BPM** 14 MIN
- 5) Mix and Pump **212 BBL** of **11.00 ppg RC EconoLite Cement @ 5 BPM** 43 MIN
- 6) Mix and Pump **19 BBL** of **14.80 ppg RC Surface Tail Cement @ 5 BPM** 4 MIN
- 7) Shut Down, Drop Top Plug CEMENT BACK @ 150 BBL
- 8) Displace with **81.6 BBL** total of **Mud Displacement @ 3 BPM** FULL RETURNS @ 200 BBL
- 9) Land Plug, Shut Down, bleed off pressure to Check Floats
- 10) Wash up Equipment.
- 11) Rig up 1" Tubing 150' down annulus
- 12) Mix and Pump **24 BBL** of **14.8 ppg RC Top Out Cement @ 2 BPM**
- 13) Shut down
- 14) Break out equipment and depart location safely.

420 Sacks of RC Econo Lite Cement

232.6 BBLS (1306.2 ft³) - Surface

Surface Density: 11.00 lb/gal

Surface Yield: 3.11 ft³/sk

Water requirement: 13.73 gal/sk

80 Sacks of RC Surface Tail Cement

19.3 BBLS (108.8 ft³) - Surface

Surface Density: 14.8 lb/gal

Surface Yield: 1.36 ft³/sk

Water requirement: 6.42 gal/sk

100 Sacks of RC Top-Out Cement

24.2 BBLS (136 ft³) - Surface

Surface Density: 14.8 lb/gal

Surface Yield: 1.36 ft³/sk

Water requirement: 6.42 gal/sk