

30-025-03646



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

8/8/17

Called out Butches Rat hole to test rig anchors.

Butches Rat Hole

DWC
CWC

8/23/17

Road in the Paragon Well Service rig to location. Secured the well site. SIWFN.

Paragon Well Service
BOP rental

DWC
CWC

8/24/17

Conducted pre-job tail gate safety meeting and rigged up the rig. Nipple down the well head and nipple up the BOP's. Picked up on 2 7/8" tbg and attempted to release the packer. No tension on the tbg string, indicating the tbg is parted. TOH w/ 40 stands, visually inspecting the existing tbg and standing back tbg in the derrick. Laid down 5 jts of tbg that were severely pitted with iron sulfide. Shut down due to a lightning storm. Secured the wellsite. SIWFN.

Paragon Well Service
Lucky Fishing & rental Tools
Paragon Packer hand

DWC
CWC

8/25/17

Conducted pre-job tail gate safety meeting. Continued to TOH with existing 2 7/8" tbg standing tbg back in the derrick. Found tbg parted 12' down on the body of jt # 75. (2452.88'). Laid down parted jt along with 30 jts of questionable tbg. Called and notified Lucky rentals fishing. Ordered overshot, grapple, wash pipe. Loaded 35 jts of new 2 7/8" tbg @ the Olson yard. Will delivery to location on Saturday. Prep to fish tbg tomorrow. Secured the wellsite. SIWFN.

Paragon Well Service
Lucky Fishing & rental Tools

DWC
CWC



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8/26/17

Conducted pre-job tail gate safety meeting. Unloaded the 35 jts of new tbg from the Olson yard. Assemble grapple, overshot and fishing tools. PU and TIH. Tagged 10' high above the top of the fish @ 2442.88'. Set down and attempted to work wash pipe with no success. TOH. The casing shoe and wash pipe was packed full with about 3' of loose soft, wet iron sulfide. Removed casing shoe and clean out fill. Order reverse unit for Monday. Gauged the 2 7/8" IPC tbg that was laid down. Mic at 2.3" -2.4" I.D. Did not see any restriction inside the tbg. Anticipate we will need to replace the top 160 jts of 2 7/8", N80, IPC tbg. Secured the wellsite. SIWFN.

Paragon Well Service
G&H roustabouts
Transfer 35 jts of new 2 7/8" tbg
Lucky Fishing & rental Tools

DWC
CWC

8/27/17

Shut down for Sunday.

8/28/17

Conducted pre-job tail gate safety meeting. Move in and rig up Lucky Rentals reverse unit, pump and pit. Loaded pit with 100 bbl's of produced water. Assemble casing overshot shoe w/grapple and wash pipe. PU and TIH. Tagged 10' high above the top of the fish @ 2442.88'. Rig up the power swivel. Attempted to break circulation with no success. Washed down and over top of the fish. Did not seem to set down. TOH. Recovered 1-3' piece and 1-26' piece of 2 7/8" tbg. Had 3 jts of 2 7/8" tbg packed off inside with iron sulfide. Cleaned up and washed out the iron sulfide fill. TIH with casing overshot shoe w/grapple and wash pipe. Tagged the top of the fish @ 2472'. Rig up the power swivel. Broke circulation with produced water. Washed down and rotated wash pipe over the top of the parted 2 7/8" tbg. TOH recovered 30' of 2 7/8" tbg. Cleaned up and washed out the iron sulfide fill. TIH with casing overshot shoe w/grapple and wash pipe. Tagged the top of the fish. Rig up the power swivel. Broke circulation with produced water. Washed down and rotated wash pipe over the top of the parted 2 7/8" tbg. TOH recovered 35' of 2 7/8" tbg. Cleaned up and washed out the iron sulfide fill. TIH with casing overshot shoe w/grapple and wash pipe. Tagged the top of the fish @ 2539'. Made 3 trips with over shot and removed a total of 64' of 2 7/8" tbg. Secured the wellsite. SIWFN.



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Paragon Well Service
Water truck
Lucky transport for reverse unit
Lucky Fishing & rental Tools
DWC
CWC

8/29/17

Conducted pre-job tail gate safety meeting. Rig up the power swivel. Broke circulation with 150 bbl's of produced water. Washed down and over the top of the fish, starting @ 2539'. Set down hard. Ran out of water. Called out and set a frac tank. Rigged down power swivel and TOH. Did not recover any pipe, just packed iron sulfide inside shoe. Cleaned up and washed out the iron sulfide fill. TIH with casing overshot shoe w/grapple and wash pipe. Tagged the top of the fish. Rig up the power swivel. Broke circulation with produced water. Washed down and rotated wash pipe over the top of the parted 2 7/8" tbg. TOH recovered 11' of 2 7/8" tbg. Cleaned up and washed out the iron sulfide fill. TIH with casing overshot shoe w/grapple and wash pipe. Tagged the top of the fish @ 2550'. Made 2 trips with over shot and removed a total of 11' of 2 7/8" tbg. Secured the wellsite. SIWFN.

Paragon Well Service
Water truck
Lucky Fishing & rental Tools
DWC
CWC

8/30/17

Conducted pre-job tail gate safety meeting. Rig up the power swivel. Broke circulation with 150 bbl's of produced water. Washed down and over the top of the fish, starting @ 2550'. Plugged off with iron sulfide. They were able to unplug the pipe and break circulation. Circulated a lot of iron sulfide out of the hole. TOH recovered 12' of 2 7/8" tbg. Along with a couple of 6" & 4" strips of metal. These strips may be a piece of casing? Cleaned up and washed out the iron sulfide fill. Sent the casing shoe in for redress with cut right. PU re dressed casing shoe with cut right. TIH with casing overshot shoe w/grapple and wash pipe. Tagged the top of the fish @ 2562'. Rig up the power swivel. Broke circulation with produced water. Washed down and rotated wash pipe over the top of the parted 2 7/8" tbg. Secured the wellsite. SIWFN.



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Paragon Well Service
Water truck
Lucky Fishing & rental Tools
DWC
CWC

8/31/17

Conducted pre-job tail gate safety meeting. Rig up the power swivel. Broke circulation with produced water. Washed down and over the top of the fish, starting @ 2562'. TOH recovered 16' of 2 7/8" tbg. Cleaned up and washed out the iron sulfide fill. TIH with casing overshot shoe w/grapple and wash pipe. Tagged the top of the fish @ 2578'. Rig up the power swivel. Broke circulation with produced water. Washed down and rotated wash pipe over the top of the parted 2 7/8" tbg. Latched onto top of semi clean tbg. Pulled 60K. Able to circulate the well and pressure up on the casing to 500-600 psi. Acts like the tbg is plugged off down hole? Discussed option to call out electric line and free point the tbg. RU the rigs sand line and sinker bar. Ran in hole with sinker bar and tagged @ 2575'(top of the fish). TOH with the sand line and sinker bar. Picked up to 80k on tbg. Cleared the floor and worked stuck tbg. Released @ 80K. TOH recovered 55' of 2 7/8" tbg. Cleaned up and washed out the iron sulfide fill. Recovered a total of 71' down to 2633'. Secured the wellsite. SIWFN.

Paragon Well Service
Water truck
Transfer 40 jts of new 2 7/8" tbg
Lucky Fishing & rental Tools
DWC
CWC

9/1/17

Conducted pre-job tail gate safety meeting. TIH with mill shoe dress off top of the fish. TOH. TIH with casing overshot shoe w/grapple and wash pipe. Tagged the top of the fish @ 2633'. Rig up the power swivel. Broke circulation with produced water. Did loose circulation for a short period of time. Regained circulation. Washed down and over the top of the fish, starting @ 2633'. TOH recovered 72' of 2 7/8" tbg. The fished out tbg is still in poor shape. The tbg collar was almost eroded away. Cleaned up and washed out the iron sulfide fill. Recovered a total of 72' down to 2705'. Secured the wellsite. SI well for Labor Day Weekend.



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Paragon Well Service
Water truck
Lucky Fishing & rental Tools
DWC
CWC

9/2/17-9/3/17-9/4/17

Shut down for Labor Day Weekend.

9/5/17

Conducted pre-job tail gate safety meeting. TIH with mill shoe dress off top of the fish. TOH. TIH with casing overshot shoe w/ 2 5/8" grapple and 30' wash pipe. Tagged the top of the fish @ 2705'. Rig up the power swivel. Broke circulation with produced water. Washed down and over the top of the fish, starting @ 2705'. Circulated large chunks of scale and iron sulfide out of the hole. TOH recovered a small piece of balled up metal. Cleaned up and washed out grapple and wash pipe. TIH with mill shoe, dress off top of the fish. TOH. TIH with casing overshot shoe w/ 2 5/8" grapple and 30' of wash pipe. Tagged the top of the fish @ 2705'. Rig up the power swivel. Broke circulation with produced water. Washed down and over the top of the fish, starting @ 2705'. TOH. Did not recover any thing on the last run. Secured the wellsite. SIWFN.

Paragon Well Service
Water truck
Lucky Fishing & rental Tools
DWC
CWC

9/6/17

Conducted pre-job tail gate safety meeting. TIH with 5 3/4" Bull dog over socket overshot to top of the fish @ 2705'. TOH recovered a tbg collar and 11' of 2 7/8" tbg. TIH with Bull dog over socket overshot on 30' of washpipe to top of the fish @ 2716'. Tagged the top of the fish. Rig up the power swivel. Broke circulation with produced water. Took 250 bbl's of produced water to break circulation. Washed down and over the top of the fish, starting @ 2716'. Latch onto fish. TOH. Did not recover any thing on the 2nd run. TIH with casing shoe with cut right, w/ 2 5/8" grapple and 30' of wash pipe. Tagged the top of the fish @ 2716'. Rig up the power swivel. Broke circulation with produced. Washed down and over the top of the fish only 10'. Attempting to dress off the top of the fish. TOH. Recovered 34' of 2 7/8" tbg. Recovered a total of 44' of tbg today. Top of the fish @ 2760'. Secured the wellsite. SIWFN.



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DWC
CWC

9/7/17

Conducted pre-job tail gate safety meeting. TIH with 5 1/2" casing shoe with cut right on 30 of wash pipe with cut right top bushing. Tag top of fish @ 2760'. Rig up the power swivel. Broke circulation with produced. Took 250 bbl's of produced water to break circulation. Attempted to dress off top of fish. Only circulated out a few hand full of scale. Tools acted as if we had a ball of metal rolling around. TOH. Wore off 2" of cut right on the casing shoe. TIH with 5 3/4" Bull dog over socket overshot to top of the fish @ 2760'. Tagged the top of the fish. Rig up the power swivel. Broke circulation with produced water. Washed down and over the top of the fish, starting @ 2760'. Latch onto fish. TOH. Recover a 2' piece of 2 7/8" tbg. TIH with 5 3/4" Bull dog over socket overshot to top of the fish @ 2762'. Tagged the top of the fish. Washed down and over the top of the fish, starting @ 2762'. Latch onto fish. TOH. Recover a 23' of 2 7/8" tbg. Recovered a total of 25' of 2 7/8" tbg today. Top of the fish @ 2785'. Secured the wellsite. SIWFN.

Paragon Well Service
Water truck
Lucky Fishing & rental Tools
DWC
CWC

9/8/17

Conducted pre-job tail gate safety meeting. TIH with 5 3/4" Bull dog over socket overshot to top of the fish @ 2785'. Tagged the top of the fish. Rig up the power swivel. Broke circulation with 250 bbl's of produced water. Washed down and over the top of the fish, starting @ 2785'. Only circulated out a few hand full of scale out of the hole. Latch onto fish. TOH. Recover 26' of 2 7/8" tbg. Had two pieces of tbg side by side stuck inside the shoe. TIH with 5 3/4" Bull dog over socket overshot to top of the fish @ 2811'. Tagged the top of the fish. Washed down and over the top of the fish, starting @ 2811'. Latch onto fish. TOH. Recover 12' of 2 7/8" tbg. Recovered a total of 38' of 2 7/8" tbg today. Top of the fish @ 2823'. Secured the wellsite. SIWFN.



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Water truck
Lucky Fishing & rental Tools
DWC
CWC

9/9/17-9/10/17

Shut down for the weekend.

9/11/17

Conducted pre-job tail gate safety meeting. TIH with 5 3/4" Bull dog over socket overshot to top of the fish @ 2823'. Tagged the top of the fish. Rig up the power swivel. Broke circulation with 250 bbl's of produced water. Washed down and over the top of the fish, starting @ 2823'. Only able to go down 15' over the top of the fish before stalling out the power swivel. Only circulated out a few hand fulls of scale out of the hole. TOH. Recover 20' of 2 7/8" tbg in 1'-4' pieces. TIH with 5 3/4" Bull dog over socket overshot to top of the fish @ 2831'. Tagged the top of the fish. Washed down and over the top of the fish, starting @ 2831'. Washed down 41'. Lost circulation for a short period of time. It took approximately 50 bbl's to break circulation again. Started circulating out scale and iron sulfide out of the hole. TOH. Recover at least a 30'+ piece of 2 7/8" tbg. Unable to remove the tbg from the wash pipe. Sent the wash pipe to Lucky shop to remove stuck jt of tbg. Recovered a total of 50' of 2 7/8" tbg today. Fishing hand thinks we may be past the dual sting of tbg in the hole. Because they were able to wash down 41' fairly easy and the tbg came out in one piece? Top of the fish @ 2873'. Secured the wellsite. SIWFN.

Paragon Well Service
Water truck
Lucky Fishing & rental Tools
DWC
CWC

9/12/17

Conducted pre-job tail gate safety meeting. TIH with mill shoe on wash pipe and dressed off top of the fish @ 2873. Tagged the top of the fish @ 2873'. Rig up the power swivel. Broke circulation with produced water. Took 250 bbl's of water. Circulating about 50% loss of water. Washed down and over the top of the fish. TOH. Did not recover anything. TIH with 5 3/4" Bull dog over socket overshot to top of the fish @ 2873'. Tagged the top of the fish. Washed down and over the top of the fish, starting @ 2823'. TOH. Recover 70' of 2 7/8" tbg. Received a call from FTW to suspend fishing operations. Lay down wash piper and broke down fishing tools. TIH with open ended 2 7/8" tbg to 1000'. Installed tbg valve. Recovered a total of 50' of 2 7/8" tbg today. Top of the fish @ 2943'. Secured the wellsite. SIWFN.



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Paragon Well Service
Water truck
Lucky Fishing & rental Tools
DWC
CWC

9/13/17
Suspended operations on standby.

Paragon Well Service (Stand by rate per day)
Lucky Fishing & rental Tools (Stand by rate per day)
DWC
CWC

9/14/17
Suspended operations on standby.

Paragon Well Service (Stand by rate per day)
Lucky Fishing & rental Tools (Stand by rate per day)
DWC
CWC

9/15/17
Suspended operations on standby.

Paragon Well Service (Stand by rate per day)
Lucky Fishing & rental Tools (Stand by rate per day)
DWC
CWC

9/16/17 – 9/17/19
Shut down for the weekend.

9/18/17
Suspended operations on standby. Held operations team meeting at the Lucky Tools Rentals yard in Midland, TX to discuss options. Attendees. Davie Minyard-Sierra Hamilton, James Hatchcock-Lucky rental Tool, James-Lucky rental tool fisherman on site & Larry Spittler-Aspen Operating.



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Paragon Well Service (Stand by rate per day)
Lucky Fishing & rental Tools (Stand by rate per day)
DWC
CWC

9/19/17
Suspended operations on standby.

Paragon Well Service (Stand by rate per day)
Lucky Fishing & rental Tools (Stand by rate per day)
DWC
CWC

9/20/17
Conducted pre-job tail gate safety meeting. TOH, standing back in the derrick with 1000' of 2 7/8" kill string. Assemble, picked up and TIH with (BHA#1. New 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long). Re-tally the 2 7/8" work string. Tagged the top of the fish @ 3005'. Rig up the power swivel. Broke circulation with produced water. Took 25 bbl's of water. Washed over top of fish circulating out scale with some iron sulfide. Washed over approximately 9', down to 3014'. The wash pipe stalled out, plugging off the work string and losing circulation. TOH w/ BHA#1. Cleaned out fill from tools. Assemble, picked up and TIH with (BHA#2. New 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long). Tagged top of fish @ 3007'. Wash over top of fish 4'. Picked up with no tension. TOH w/a collar and a 2' piece of 2 7/8" tbg. Body break. The bottom of the tbg fished out was mangled and twisted. TIH with (BHA#1). Tagged the top of the fish @ 3007'. Rig up the power swivel. Broke circulation with produced water. Milled down and over top of fish to 3041'. Lost circulation. TOH with (BHA#1). Did not recover anything. Recovered a total of 2' of 2 7/8" tbg today. Top of the fish @ 3007'. Secured the wellsite. SIWFN. Tomorrow morning, the plan is to run BHA#2 over shot first trip in hole.

(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

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Paragon Well Service
Water truck
Lucky Fishing & rental Tools
DWC
CWC



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9/21/17

Conducted pre-job tail gate safety meeting. Assemble, picked up and TIH with (BHA#2). Existing 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long). Tagged the top of the fish @ 3007'. Picked up with no tension. TOH w/1 piece of 2 7/8" tbg 27' long. Had to cut the fished tbg in 3 section to remove from the fishing tools. The tbg was severely corrode, pitted and had holes thru out the entire section. The section fished out indicated a collar is looking up. Assemble, picked up and TIH with (BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long). Rig up the power swivel. Broke circulation with produced water. Took 160 bbl's of water. Washed over top of fish down 34'. Circulation was intermediate w/50% returns. Most of the returns are scale. No metal, no cement and no formation. Eventually losing circulation. TOH w/ (BHA #3). Assemble, picked up and TIH with (BHA#2). Tagged top of fish @ 3034'. Washed over top of fish'. Rigged up the pulling units sand line. Ran a sinker bar on the sand line attempting to go inside of the tbg at the top of the fish. Unable to go past the top of the fish @ 3034'. TOH with the sand line. Picked up on the tbg with no tension. TOH with (BHA#2). Recovered 150' of 2 7/8" tbg in 1 piece. The bottom 20' of tbg only had the internal plastic coating. All of the metal was gone. Recovered a total of 177' of 2 7/8" tbg today. Top of the fish is @ 3184'. Secured the wellsite. SIWFN. Tomorrow morning, the plan is to run (BHA#4) Shark-Tooth csg shoe w/extra jts of wash pipe on the first trip in the hole.

(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#4). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).



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Water truck
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DWC
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9/22/17

Conducted pre-job tail gate safety meeting. Assemble, picked up and TIH with (BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long). <Added 3 extra jts of 5 3/4" wash pipe to the BHA#3> Tagged up at 3066'. Unable to break circulation. The (BHA#4) got stuck. Unable to rotate BHA, go up or down. Worked the (BHA#4) free by pulling 92k. TOH w/ (BHA#4). Visually inspecting the BHA tools for scaring, cuts, or jagged edges. The (BHA#4) looked new. We believe the reason for getting the (BHA#4) stuck. The (BHA#4) was too stiff and scale build up inside the 7" casing. Laid down 2 jts of 5 3/4" wash pipe. TIH with (BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long). Set down @ 3066'. Rigged up the power swivel. Broke circulation with produced water. Took 180 bbl's of produced water. Washed down to 3195'. Approximately 9' over top of the fish. Lost circulation. Rigged down the power swivel. TOH with (BHA#5). Had 5 1/2 jts of the 2 7/8" work string tbg packed full of scale cuttings. Clean out work string tbg and BHA tools. TIH with (BHA#5) to 2900'. Did not recover any 2 7/8" tbg today. Top of the fish is @ 3184'. Secured the wellsite. SIWFN. Tomorrow morning, the plan is to finish TIH with (BHA# 5) 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.



Paragon Well Service
Water truck
Espinoza BOP rentals
Lucky Fishing & rental Tools
DWC
CWC



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

9/23/17

Conducted pre-job tail gate safety meeting. Finished TIH with (BHA# 5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long). Tagged up at 3195'. Rigged up the power swivel. Unable to break circulation. Wash down to 3261'. Pumped 350 bbl's of produced water with no returns. Rigged down the power swivel. TOH with (BHA#5). TIH with (BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long). Set down on top of fish. TOH with (BHA#2). Recover 1 single piece of 2 7/8" tbg 34' long. After tallying up the fished out tbg on location, the top of the fish should be @ 3265' by tally depth. The tbg may have parted, dropping down beside each other down hole? Top of the fish is @ 3265'. Secured the wellsite. SIWFN. Monday morning, the plan is to TIH with (BHA# 5) 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(**BHA#1**). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(**BHA#2**). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(**BHA#3**). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(**BHA#4**). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).

(**BHA#5**). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

Paragon Well Service
Water truck
Lucky Fishing & rental Tools
DWC
CWC

9/24/17

Shut down for Sunday.



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

9/25/17

Conducted pre-job tail gate safety meeting. After evaluation of BHA's and discussing options, the discussion was made to run the over shot grapple on the 1st run instead of the wash pipe. TIH with (BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long). Rigged up the power swivel. Broke circulation with 170 bbl's of produce water. Wash down and over top of fish. Circulated out mostly scale cuttings in the returns. Picked up on (BHA#2) with no tension. TOH with (BHA#2). Recovered 1 single 54' piece of 2 7/8" tbg. Removed and laid down the 54' of fished out tbg from the BHA. The tbg was severely corroded, pitted with holes. Body break. TIH with (BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long). Rigged up the power swivel. Broke circulation with produce water. Wash down and over top of fish down to 3360'. Circulated out mostly scale cuttings in the returns. Washed over fairly easy. Used 200 bbl's of produce water today. TOH with (BHA#6). TIH with (BHA#2) over top of fish. Picked up and the tbg seemed to twist off. TOH with (BHA#2). Recovered 1 single 3' piece of 2 7/8" tbg. Removed and laid down the 3' of fished out tbg from the BHA. The tbg was severely corroded, pitted with holes. Body break. We believe just above a collar? TIH with (BHA#2) to 3100'. After evaluation of how the wash pipe ran in the hole with no binding up and not retrieving any small pieces of tbg. We believe we do not have any tbg beside each other down hole at this depth. Recovered a total of 57' of 2 7/8" tbg in 2 pieces today. Top of the fish is @ 3322'. Secured the wellsite. SIWFN. Tomorrow, the plan is to finish TIH with (BHA#2) wash over and latch onto the top of fish.

(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

(BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.





Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

Paragon Well Service
 Water truck
Lucky Fishing & rental Tools
 DWC
 CWC

<u>Tubing Size</u>	<u># of joints</u>	<u>Weight & Grade</u>	<u>Depth Set</u>
2 7/8"	184	IPC. N-80	5863.30'
2 7/8"	160	IPC. J-55 Rice line	2028.31'
2 7/8"	40	IPC. N-80	1282.46'

Packer
 Nickel plated Arrow set 2 7/8" x 7". w/SS profile nipple & J lock on/off tool.
 Set on 1/3/13 @ 12,100'.

Bottom packer
 Nickel plated Arrow set 2 7/8" x 7" 32#. w/carbine slips. Right hand set & release.
 2.31 X Profile nipple. J lock on/off tool left hand release.
 Confirmed packer is stuck on 12/20/12 @ 12179' Set @ 12,179.40'.

7", 29# & 32# production casing @ 12,253'.
OH section 12,253'-12,253'.

Lucky Rental Tools. Inv date-8/25-8/31/17. INV#20996LH-1



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

Paragon Well Service
 Water truck
Lucky Fishing & rental Tools
 DWC
 CWC

9/26/17

Conducted pre-job tail gate safety meeting. Finished TIH with (BHA#2). Engaged over top of the fish @ 3322'. Picked up on (BHA#2) with no tension. TOH with (BHA#2). Recovered 1 single 94' piece of 2 7/8" tbg. Body break. Removed and laid down the 94' of fished out tbg from the BHA. The tbg was severely corroded, pitted holes, mostly rust color. Top of the fish @ 3416'. TIH with (BHA#2). Set down @ 3378'. Felt like tagging fill. TOH with (BHA#2). The casing shoe and grapple were packed full with scale cuttings. Laid down and cleaned out the fill from (BHA#2). Picked up and TIH with (BHA#6). 5 3/4" csg shoe w/existing Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long). Tag up @ 3378'. Rigged up the power swivel. Broke circulation with 125 bbl's of produce water. Wash down and over top of fish down to 3446'. Circulated out mostly scale cuttings in chunks with some iron sulfide in the returns. Washed over fairly easy. Used 215 bbl's of produce. Receive a call form Aspen FTW office requesting an injection rate test. Rigged down the power swivel and rigged up the revers unit hose to the work string. Closed the BOP's and conducted an injection rate while washed over the fish @ 3446'.

Time	VOLUME	PSI	BPM
15 minutes	26	0	2.25
20 minutes	50	0	2.25
27 minutes	60	0	2.25
30 minutes	66	0	1.5
40 minutes	86	660	2
60 minutes	106	660	2
ISDP		0	

Pumped and extra 100 bbl's of produced water holding rate @ 500 psi @ 1.75 BPM.



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

Started TOH with (BHA#6) up to 2000'. Secured the wellsite. SIWFN. Recovered a total of 94' of 2 7/8" tbg in 1 piece today. Top of the fish is @ 3416'. Tomorrow, the plan is to finish TOH with (BHA#6). TIH with (BHA#2) overshot. Set down as easy as possible. Attempt to run swab line w/ sinker bar thru tbg.

(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

Paragon Well Service
Water truck. State Line Trucking. No trucks today.

Lucky Fishing & rental Tools

DWC

CWC



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

9/27/17

Conducted pre-job tail gate safety meeting. Finished TOH with (BHA#6). Picked up and TIH with (BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long). Engaged over the top of the fish @ 3416' as easily as possible with no rotation. Slightly picked up on (BHA#2) with no tension. Rigged up the sand line with sinker bar. Attempted to go thru the top of the fish @ 3416' with no success. Rigged down the sand line. TOH with (BHA#2). Recovered 1 single 85' piece of 2 7/8" tbg. Body break. The tbg was bent. Removed and laid down the 85' of fished out tbg from the BHA. The tbg was severely corroded, pitted holes, bent and mostly rust color. Top of the fish @ 3501'. Picked up and TIH with (BHA#6). 5 3/4" csg shoe w/existing Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long). Re-calculated the tbg tally. Tag up @ 3445'. Received a call from Aspen FTW office requesting an attempt to wash over the top of the fish without rotating the BHA with the power swivel. Rigged up the power swivel. Broke circulation with 150 bbl's of produce water. Rotated and washed down to the top of the fish @ 3501'. Circulated out mostly scale cuttings with some iron sulfide in the returns. Rigged down the power swivel and rigged up the reverse unit hose to the tbg. Attempted to wash over without rotating the BHA by circulating and moving the (BHA#6) wash pipe up and down with no success. The decision was made to wash over the top of the fish by rotating the (BHA#6) with the power swivel. Rigged down the reverse unit hose from the tbg. Rigged up the power swivel. While rigging up the power swivel the well lost circulation. Took 150 bbls of produced water to break circulation. Starting @ 3501', rotated and washed down and over the top of fish. Washed down to 3545' before stalling out. Circulated out mostly scale cuttings with some iron sulfide in the returns w/ 50 % returns. Used a total of 425 bbls of produced water today. Rigged down the power swivel. TOH with (BHA#6). Picked up and TIH with (BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long). Stopped at 2000'. Secured the wellsite. SIWFN. Recovered a total of 85' of 2 7/8" tbg in 1 piece today. Top of the fish is @ 3501'. Tomorrow, the plan is to finish TIH with (BHA#2) overshot. After over shot, run a bit and casing scraper to TD.

(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

Paragon Well Service
 Water truck. State Line Trucking. No trucks today.
 Lucky Fishing & rental Tools

 DWC
 CWC

<u>Tubing Size</u>	<u># of joints</u>	<u>Weight & Grade</u>	<u>Depth Set</u>
2 7/8"	184	IPC. N-80	5863.30'
2 7/8"	160	IPC. J-55 Rice line	2028.31'
2 7/8"	40	IPC. N-80	1282.46'

Packer
 Nickel plated Arrow set 2 7/8" x 7". w/SS profile nipple & J lock on/off tool.
 Set on 1/3/13 @ 12,100'.

Bottom packer
 Nickel plated Arrow set 2 7/8" x 7" 32#. w/carbine slips. Right hand set & release.
 2.31 X Profile nipple. J lock on/off tool left hand release.
 Confirmed packer is stuck on 12/20/12 @ 12179' Set @ 12,179.40'.

7", 29# & 32# production casing @ 12,253'.
OH section 12,253'-12,253'.

Lucky Rental Tools. Inv date-8/25-8/31/17. INV#20996LH-IN



Well Name: State AC #1
Location: Crossroads Field, Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

Paragon Well Service

Water truck. State Line Trucking. No trucks today.

Lucky Fishing & rental Tools

DWC

CWC

9/28/17

Conducted pre-job tail gate safety meeting. Finished TIH with (BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long). Engaged over the top of the fish @ 3501'. Slightly picked up on (BHA#2) with no tension. TOH with (BHA#2). Recovered 1 single 9' piece of 2 7/8" tbg. Body break. Removed and laid down the 9' of fished out tbg from the BHA. The tbg was severely corroded, pitted holes, extremely thin wall and mostly rust color. Top of the fish @ 3510'. Assemble and TIH with a condition 1 used Baker 5 3/4" tri-cone bit, new 7" casing scraper, x-over sub and 2 7/8" work string. TIH to the top of the fish @ 3510. Did not hit any build ups while tripping in the hole. Rigged up the power swivel. Broke circulation with 200 bbl's of produce water. Circulated the hole clean. Rigged down the power swivel and rigged up the reverse unit hose to the tbg. Closed the BOP's and conducted an injection rate test while @ top of the fish @ 3510'. Initial injection rate was 2.75 BPM @ 500 psi. With 50 bbls pumped away the rate dropped to 2 BPM @ 500 psi. ISDP-0 psi. Pumped a total of 200 bbls. Rigged down the reverse unit hose from the tbg. TOH with bit and casing scraper. Picked up and TIH with (BHA#6) 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long). Stopped at 3000'. Used a total of 450 bbls of produced water today. Secured the wellsite. SIWFN. Recovered a total of 9' of 2 7/8" tbg in 1 piece today. Top of the fish is @ 3510'. Tomorrow, the plan is to finish TIH with wash pipe. Then run over-shot.

Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.



(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

Paragon Well Service
Water truck. State Line Trucking.
Espinoza BOP rentals
A1-Backhoe (fork-lift)
Lucky Fishing & rental Tools

DWC
CWC

9/29/17

Conducted pre-job tail gate safety meeting. Finished TIH with (BHA#6). 5 3/4" csg shoe w/used Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long). Engaged over the top of the fish @ 3510' as easily as possible. Rigged up the power swivel. Took 200 bbl's to break circulation with produced water. Rotated, washed down and over the top of fish as easily as possible. Washed down to 3570' (60'). Circulated out mostly scale cuttings w/ 40 % returns. Did have some plastic cuttings in the the returns. Looks like the plastics that is used on internal coated tbg. Used a total of 275 bbls during the wash over on the 1st trip. Rigged down the power swivel. TOH with (BHA#6). Picked up and TIH with (BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long). Easily engaged over the top of the fish @ 3510'. Slightly picked up on (BHA#2) with no tension. TOH with (BHA#2). Recovered 1 single 25' piece of 2 7/8" tbg. Body break. Removed and laid down the 25' of fished out tbg from the BHA. The tbg was severely corroded, pitted holes, extremely thin wall and mostly rust color. Top of the fish @ 3535'. TIH with (BHA#2). Easily engaged over the top of the fish @ 3535'. Slightly picked up on (BHA#2) with no tension. TOH with (BHA#2). Recovered 1 single 43' piece of 2 7/8" tbg. Body break. Removed and laid down the 43' of fished out tbg from the BHA. The tbg was severely corroded, pitted holes, extremely thin wall and mostly rust color. Top of the fish @ 3578'. Picked up and started TIH with (BHA#6). Stopped @ 1500'. Used a total of 275 bbls of produced water today. Secured the wellsite. SIWFFN. Recovered a total of 63' of 2 7/8" tbg in 2 pieces today. Top of the fish is @ 3578'. Tomorrow, the plan is to finish TIH with wash pipe. Then run over-shot.



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

Paragon Well Service
Water truck. State Line Trucking.
Lucky Fishing & rental Tools

DWC
CWC

9/30/17

Conducted pre-job tail gate safety meeting. Finished TIH with (BHA#6). 5 3/4" csg shoe w/used Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long). Engaged over the top of the fish @ 3578' as easily as possible. Rigged up the power swivel. Took 120 bbl's to break circulation with produced water. Rotated, washed down and over the top of fish as easily as possible. Washed down to 3640' (62'). Circulated out mostly scale cuttings w/ 50 % returns. Did have some plastic cuttings in the returns. Used a total of 180 bbls during the wash over. Rigged down the power swivel. TOH with (BHA#6). Picked up and TIH with (BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long). Easily engaged over the top of the fish @ 3578'. Slightly picked up on (BHA#2) with no tension. TOH with (BHA#2). Recovered 1 single 30' piece of 2 7/8" tbg. Body break. Removed and laid down the 30' of fished out tbg from the BHA. The tbg was severely corroded, pitted holes, extremely thin wall and mostly rust color. Same condition as the last two days. Top of the fish @ 3608'. After evaluating the tools



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

and the piece of tbg just retrieved. It is believe we have a tbg collar looking up. The decision was made to run the (BHA#2) over shot again. TIH with (BHA#2) attempted to engage over the top of the fish @ 3608'. Slightly picked up on (BHA#2) with no tension. Tool hand indicated he did not feel the over shot engaged? TOH with (BHA#2). Did not recover any tbg. The over shot grapple was packed full of scale. Picked up and started TIH with (BHA#6). Stopped @ 1500'. Used a total of 180 bbls of produced water today. Secured the wellsite. SIWFN. Recovered a total of 30' of 2 7/8" tbg in 1 piece today. Top of the fish is @ 3608'. Monday, the plan is to finish TIH with wash pipe. Then run over-shot.

BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

Paragon Well Service
Water truck. State Line Trucking.
Espinoza BOP rentals
Port-a-potty/trash trailer
Lucky Fishing & rental Tools

DWC
CWC

10/1/17
Shut down for Sunday.



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

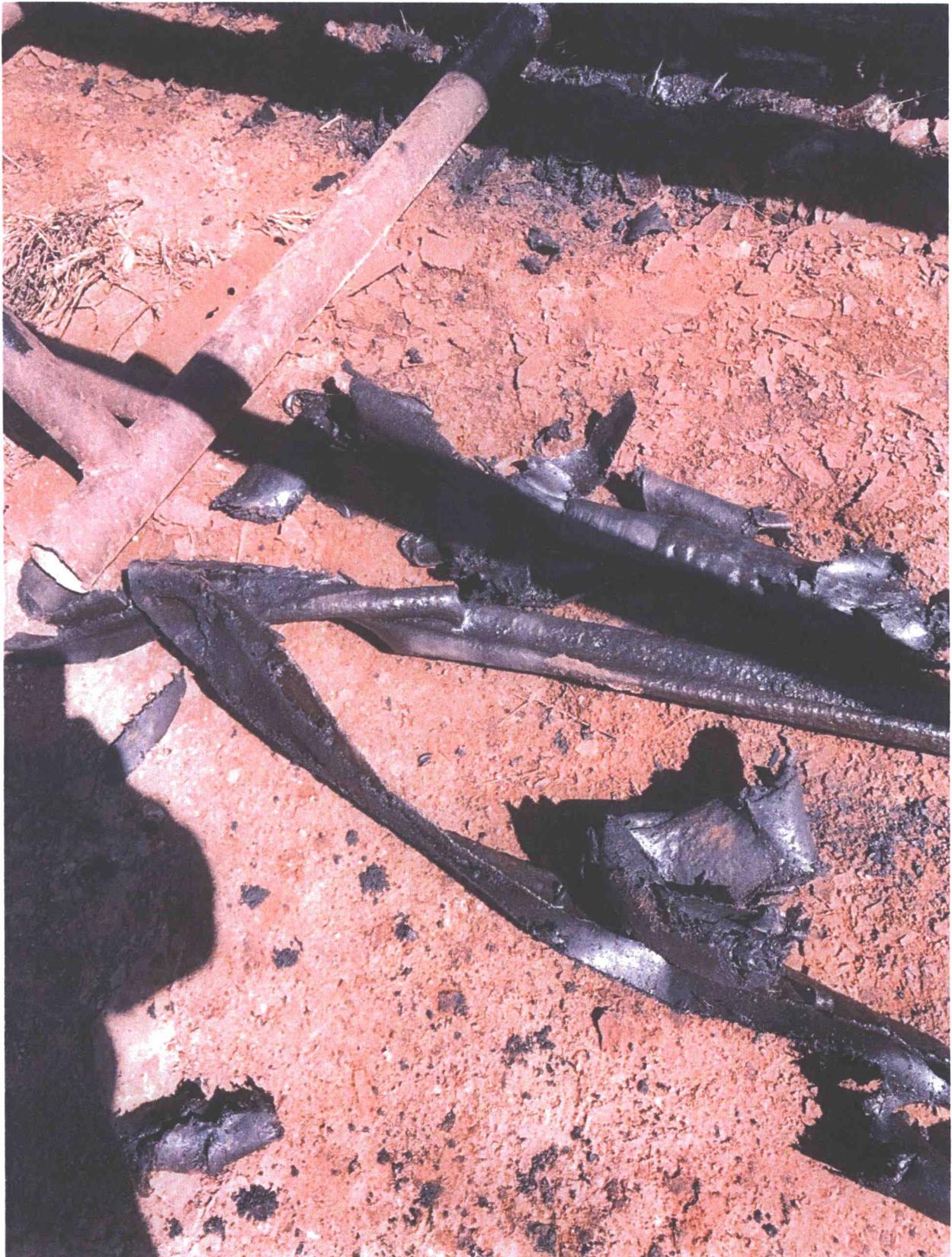
10/2/17

Conducted pre-job tail gate safety meeting. Finished TIH with (BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long). Engaged over the top of the fish @ 3608' as easily as possible. Rigged up the power swivel. Took 240 bbl's to break circulation with produced water. Had difficulty rotating and washing down. Washed down from 3640' to 3670' (30'). Circulated out mostly scale cuttings w/ 40 % returns. Did have some rubber cuttings in the returns. Used 45 bbl's of produced waster during was over operations for a total of 275 bbl's of water used on 1st wash pipe run. Rigged down the power swivel. TOH with (BHA#6). There were multiple pieces of 2 7/8" tbg wedged up in the wash pipe (44' of tbg). The tbg was severely twisted, bent and mangled up. Also recovered pieces of internal rubber coating. Possibility from the Rice lined 2 7/8" tbg? Removed and laid down the 44' of fished out tbg from the BHA. After evaluating the tools and the pieces of tbg just retrieved. It is believe we have tbg looking up. The decision was made to run the (BHA#2) over shot. Picked up and TIH with (BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long). Easily engaged over the top of the fish @ 3652'. Slightly picked up on (BHA#2) with no tension. TOH with (BHA#2). Did not recover anything. TIH with (BHA#6) wash pipe. Rotated and engaged over the top of the fish @ 3652' as easily as possible. Rigged up the power swivel. Took 25 bbl's to break circulation with produced water. Had some difficulty rotating and washing down. Washed down from 3670' to 3716' (46'). Circulated out mostly scale cuttings w/ 100 % returns. Did not use any water on the 2nd wash pipe run. Did have some rubber cuttings in the returns. Rigged down the power swivel. Started to TOH with (BHA#6) wash pipe. Stopped at 1000'. Used a total of 300 bbl's of produced water today. Secured the wellsite. SIWFN. Recovered a total of 44' of 2 7/8" tbg in multiple pieces along with rubber lining today. Top of the fish is @ 3652'. Tomorrow, the plan is to finish TOH with wash pipe. Then run over-shot.



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.





Well Name: State AC #1
Location: Crossroads Field, Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

Paragon Well Service
Water truck. State Line Trucking.

Lucky Fishing & rental Tools

DWC

CWC

10/3/17

Conducted pre-job tail gate safety meeting. Finished TOH with (BHA#6) wash pipe. Retrieved 10' of 2 7/8" tbg in multiple pieces wedge inside the wash pipe Removed and laid down the 10' of fished out tbg from the BHA. TIH with (BHA#6) wash pipe. Rigged up the power swivel. Broke circulations w/10 bbl's of produced water. Did not use any water during wash over. Rotated and washed down from 3716' to 3754' (38'). Circulated out mostly scale cuttings w/ 100% returns. Circulated hole clean. TOH with (BHA#6) wash pipe. TIH with (BHA#2). 5 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long). Engaged top of fish @ 3710'. Slightly picked up on (BHA#2) with no tension. TOH with (BHA#2). Recovered 1 single 47' piece of 2 7/8" tbg. Body break. Removed and laid down the 47' of fished out tbg from the BHA. The tbg was severely corroded, pitted holes, extremely thin wall and mostly rust color. Top of the fish @ 3754'. Strapped and re-calculated-tbg tally. Assumed we had 13' of washed over tbg looking up. TIH with (BHA#2). Unable to engage the top of the fish. Took 6 bbl's of produced water to load the tbg and casing annulus. Slightly picked up on (BHA#2) with no



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

tension. TOH with (BHA#2). Did not recover anything. Used a total of 16 bbl's of produced water today. Secured the wellsite. SIWFN. Recovered a total of 57' of 2 7/8" tbg in multiple pieces with rubber lining today. New re-calculated top of the fish is @ 3754'. Tomorrow, the plan is to TIH w/3 jts of wash pipe. Then run Bull dog over socket over-shot on 3 jts of wash pipe.

(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

Paragon Well Service
Water truck. State Line Trucking.
Lucky Fishing & rental Tools

DWC
CWC



Well Name: State AC #1
Location: Crossroads Field, Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

10/4/17

Conducted pre-job tail gate safety meeting. Shut down the rig for maintenance on the rigs brake drum line. Completed PM on the rig. Picked up wash over BHA and added a 3rd jt of 5 3/4" x 30' to BHA. TIH with (BHA#7). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 3 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 94.6" long) and TIH. Did not hit any tights spots while TIH with the BHA. Engaged over the top of the fish @ 3754' as easily as possible. Rigged up the power swivel. Took 10 bbl's to break circulation with produced water. Rotated and washed down from 3754' to 3769 (15'). Circulated out scale cuttings w/ 100% returns. Rigged down the power swivel and rigged up the reverse unit hose to the tbg. Closed the BOP's and conducted an injection rate test while @ 3769'. Established an injection rate of 2.5 BPM @ 500 psi. ISDP-0 psi. Pumped a total of 150 bbl's. Rigged down the reverse unit hose from the tbg and rigged up the power swivel. Rotated and washed down from 3769' to 3775' (6') before stalling out. Lost circulation and were unable to regain circulation while washing over the tbg during the last 6'. Used a total of 350 bbl's of produce water during the injection rate test and the wash over operations this morning. TOH with (BHA#7) wash pipe. There were multiple pieces of 2 7/8" tbg wedged up in the wash pipe (a total of 19' of tbg). The tbg was severely twisted, bent and mangled up. There were two pieces wedged side by side inside the wash pipe. Removed and laid down the 19' of fished out tbg from the BHA. Top of the fish is @ 3773'. After evaluating the tools, the decision was made to run back in the hole with the BHA wash pipe. TIH with (BHA#7). Engaged over the top of the fish @ 3773' as easily as possible. Rigged up the power swivel. Rotated and washed down from 3775' to 3814' (39'). Unable to establish circulation while washing over. Ran out of day light to safely operate. Pulled up above the top of fish to ensure fill would not fall in and stick the BHA wash pipe. Used 220 bbl's of produced water during the 2nd wash over operations. Used a total of 570 bbl's of produced water today. Secured the wellsite. SIWFN. Recovered a total of 19' of 2 7/8" tbg in multiple pieces today. New re-calculated top of the fish is @ 3773'. Tomorrow, the plan is to TIH w/3 jts of wash pipe, attempt to wash over the entire 90' of wash pipe without stalling out. Then run the Bull dog over socket over-shot on 3 jts of wash pipe.

(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#7). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 3 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 94.6" long).

(BHA#8). 5 3/4" over shot w/ 2 7/8" Bull dog over socket over-shot grapple, 2' x-over sub on 3 jts of 30' 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 99.6" long).

Paragon Well Service
Water truck. State Line Trucking.
Espinoza BOP rentals
Port-a-potty/trash trailer
Lucky Fishing & rental Tools
DWC
CWC



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

10/5/17

Conducted pre-job tail gate safety meeting. TIH from 3500' with existing (BHA#7). 5 3/4" csg shoe w/existing Star Carbon Tipped mill, w/5" ID, on 3 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 94.6" long). Engaged over the top of the fish @ 3773' as easily as possible. Rigged up the power swivel. Took 220 bbl's to break circulation with produced water. Rotated and washed down from 3814' to 3829' (15') before stalling out. Acted as if washing over metal. Circulated out scale w/ metal cuttings w/ 100% returns. Used a total of 250 bbl's of produce water during the 1st wash over operations this morning. TOH with (BHA#7) wash pipe. There were multiple small pieces, 1 cork screwed 6' piece and 1 single 30' jt of 2 7/8" tbg wedged up in the wash pipe (a total of 37' of tbg). The tbg was severely twisted, cork screwed and mangled up. Removed and laid down the 37' of fished out tbg from the BHA. Top of the fish is @ 3810'. After evaluating the tools, the decision was made to run back in the hole with the BHA wash pipe. TIH with (BHA#7). Engaged over the top of the fish @ 3810' as easily as possible. Rigged up the power swivel. Broke circulation. Rotated and washed down from 3829' to 3849' (20'). Circulated out scale w/ plastic cuttings w/ 100% returns. Ran out of day light to safely operate. Pulled up above the top of fish to ensure fill would not fall in and stick the BHA wash pipe. Used 20 bbl's of produced water during the 2nd wash over operations. Used a total of 270 bbl's of produced water today. Secured the wellsite. SIWFN. Recovered a total of 37' of 2 7/8" tbg in multiple pieces today. New re-calculated top of the fish is @ 3810'. Tomorrow, the plan is to TIH w/3 jts of wash pipe, attempt to wash over the entire 90' of wash pipe without stalling out. Run the Bull dog over socket over-shot on 3 jts of wash pipe.



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.





Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#7). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 3 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 94.6" long).

(BHA#8). 5 3/4" over shot w/ 2 7/8" Bull dog over socket over-shot grapple, 2' x-over sub on 3 jts of 30' 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 99.6" long).

Paragon Well Service
Water truck. State Line Trucking.
Lucky Fishing & rental Tools

DWC
CWC



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

10/6/17

Conducted pre-job tail gate safety meeting. TIH from 3500' with existing (BHA#7). 5 3/4" csg shoe w/existing Star Carbon Tipped mill, w/5" ID, on 3 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 94.6" long). Engaged the top of the fish @ 3810' as easily as possible. Rigged up the power swivel, instantly broke circulation. Did not use any water to load hole. Circulated the hole clean. Rigged up the reverse unit hose to the tbg. Closed the BOP's and conducted an injection rate test while @ 3810'. Unable to establish an injection rate @ 500 psi. Rigged down the reverse unit hose from the tbg and rigged up the power swivel. Rotated and washed down from 3849' to 3855' (6') before stalling out. Acted as if washing over metal. Circulated out scale w/ metal cuttings w/ 100% returns. Did not use any produce water during the 1st wash over operations this morning. TOH with (BHA#7) wash pipe. There were 2 pieces of 2 7/8" tbg (1-11' & 1-1') wedged up in the wash pipe (a total of 12' of tbg). The tbg was severely twisted, corroded and mangled up. Removed and laid down the 12' of fished out tbg from the BHA. Top of the fish is @ 3822'. After evaluating the tools, the decision was made to run back in the hole with the BHA wash pipe. TIH with (BHA#7). Engaged over the top of the fish @ 3822' Circulated hole clean. Rigged up the reverse unit hose to the tbg. Closed the BOP's and conducted an injection rate test while @ 3822'. Unable to establish an injection rate @ 500 psi. Rigged down the reverse unit hose from the tbg and rigged up the power swivel as easily as possible. Rigged up the power swivel. Broke circulation instantly using no water. Rotated and washed down from 3849' to 3855' (6'). Circulated out scale w/ plastic cuttings and some metal cuttings w/ 100% returns. Closed the BOP's and conducted an injection rate test while @ 3822'. Unable to establish an injection rate @ 500 psi. Wash pipe stacked out, acting like milling on metal. Did not use any produce water during the 2nd wash over operations. TOH with (BHA#7) wash pipe. Did not recover anything. The Star Carbon tipped mill was completely worn off. After discussing options, the decision was made to lay down the 3 jts of 5 3/4" wash pipe. TIH with 5 3/4" casing shoe w/ 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 6.6" long). TIH down to 2500'. Ran out of day light to safely operate. Used a total of 0 bbl's of produced water today. Secured the wellsite. SIWFFN. Recovered a total of 12' of 2 7/8" tbg in multiple pieces today. New re-calculated top of the fish is @ 3822'. Tomorrow, the plan is to finish TIH w/casing shoe and top bushing. Attempt to dress off the top fish and establish an injection rate.



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#7). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 3 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 94.6" long).

(BHA#8). 5 3/4" over shot w/ 2 7/8" Bull dog over socket over-shot grapple, 2' x-over sub on 3 jts of 30' 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 99.6" long).

Paragon Well Service
Water truck. State Line Trucking.
Lucky Fishing & rental Tools

DWC
CWC



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

10/7/17

Conducted pre-job tail gate safety meeting. TIH from 2500' with (BHA#9). 5 3/4" casing shoe w/ 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 6.6" long). Engaged the top of the fish @ 3822' as easily as possible. Rigged up the power swivel, instantly broke circulation. Rotated and dressed off the top of the fish at 3822'. Circulating out scale and metal cuttings down approximately 1 1/2" before the casing shoe plugged off. Unable to pump in or circulate. Rigged down the power swivel. TOH with (BHA#9). Unable to clean out the stuck pieces of tbg wedged up inside the casing shoe. The cut right was worn completely off the casing shoe down to the water ports. Inspected cut right on the top bushing, top bushing was in good shape. Replaced the 5 3/4" casing shoe w/new cut right. TIH with (BHA#9). Engaged the top of the fish @ 3823' as easily as possible. Rigged up the power swivel, instantly broke circulation. Rotated and dressed off the top of the fish at 3824' down 4' to 3828' the entire length of the BHA. Circulating out scale and metal cuttings w/100 % returns. TOH with (BHA#9). Did not recover anything. Inspected BHA. The cut right on the top bushing was worn down. Indicating BHA washed over the fish the entire length of the BHA. The discussion was made to run a casing shoe with cut right on 30' of wash pipe. Picked up and TIH with (BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long). Stopped @ 1500'. Ran out of day light to safely operate. Used a total of 0 bbl's of produced water today. Secured the wellsite. SIWFN. Recovered a total of 1 1/2' of 2 7/8" tbg in multiple pieces today. New re-calculated top of the fish is @ 3824'. Monday, the plan is to finish TIH w/casing shoe, wash pipe and top bushing. Attempt to dress off the top fish and establish an injection rate.

(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

(BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#7). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 3 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 94.6" long).

(BHA#8). 5 3/4" over shot w/ 2 7/8" Bull dog over socket over-shot grapple, 2' x-over sub on 3 jts of 30' 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 99.6" long).

(BHA#9). 5 3/4" casing shoe w/ 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 6.6" long).



Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.





Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

Paragon Well Service
Water truck. State Line Trucking.
Lucky Fishing & rental Tools

DWC
CWC

10/8/17

Shut down for Sunday.

10/9/17

Conducted pre-job tail gate safety meeting. TIH from 1500' with (BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long). Engaged the top of the fish @ 3824' as easily as possible. Rigged up the power swivel, instantly broke circulation. Rotated and washed down over the top of the fish at 3824' (30') down to 3854'. Circulating out scale, metal cuttings and plastic w/90 % returns before the casing shoe plugged off. Unable to pump in or circulate. Did lose and regain circulation intermittently during the wash over operations, used 70 bbl's of produced water during the 1st wash over. Rigged down the power swivel. TOH with (BHA#3). Recover 1-single 25' piece of 2 7/8" tbg and 1-single 1' piece of cork screwed 7" casing. Top of the fish is @ 3849'. TIH with (BHA#3). Engaged the top of the fish @ 3849' as easily as possible. Rigged up the power swivel, instantly broke circulation. Rotated and washed down over the top of the fish at 3849' (6') to 3854'. Lost circulation. Rigged up the reverse unit hose to the tbg. Closed the BOP's and conducted an injection rate test while @ 3854'. Established an injection rate of 3 BPM @ 400 psi. Injected a total of 220 bbl's of produced water. Notify Aspen FTW office. TOH with (BHA#3). Stood back in the derrick 31 stand of good 2 7/8" tbg in the derrick. Disassembled and lay down the BHA. Used a total of 290 bbl's of produced water today. Secured the wellsite. SIWFN. Recovered a total of 25' of 2 7/8" tbg in 1 piece today. New re-calculated top of the fish is @ 3849'. Tomorrow, the plan is to finish rigging down and release the rig



Well Name: State AC #1
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Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.





Well Name: State AC #1
Location: Crossroads Field. Lea Co, NM
Job Description: H5 Failure

AFE# or LOE: LOE
Lease #: NM 0008
Well Site Supervisor: L.A. Spittler, Jr.

(BHA#1). 5 3/4" csg shoe, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#2). 5 3/4" over shot w/ 2 7/8" grapple, 2' x-over sub on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 36.6" long).

(BHA#3). 5 3/4" csg shoe w/Shark-Tooth mill, w/5" ID, on 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 34.6" long).

(BHA#4). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 4 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 124.6" long).

(BHA#5). 5 3/4" csg shoe w/new Shark-Tooth mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#6). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 2 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 64.6" long).

(BHA#7). 5 3/4" csg shoe w/new Star Carbon Tipped mill, w/5" ID, on 3 jts of 30' of 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 94.6" long).

(BHA#8). 5 3/4" over shot w/ 2 7/8" Bull dog over socket over-shot grapple, 2' x-over sub on 3 jts of 30' 5 3/4" wash pipe, 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over w/ 2 1/2" ID. 99.6" long).

(BHA#9). 5 3/4" casing shoe w/ 5 3/4" top bushing w/ cut right 2 3/8" ID, with 4 5/8" x 2 7/8" x-over sub w/ 2 1/2" ID. 6.6" long).

Paragon Well Service
Water truck. State Line Trucking.
Lucky Fishing & rental Tools

DWC
CWC



Well Name: State AC #1
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Well Site Supervisor: L.A. Spittler, Jr.

10/9/17

Conducted pre-job tail gate safety meeting. TIH with 62 jts of 2 7/8" tbg as a kill string down to 1922'. Nipple down the BOP's and nipple up the wellhead. Empty the frac tank and reverse unit pit. Rigged down and released the reverse unit package and pulling unit. Cleaned and secured the location. Final report.

Paragon Well Service
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 CWC

<u>Tubing Size</u>	<u># of joints</u>	<u>Weight & Grade</u>	<u>Depth Set</u>
2 7/8"	184	IPC. N-80	5863.30'
2 7/8"	160	IPC. J-55 Rice line	2028.31'
2 7/8"	40	IPC. N-80	1282.46'

Packer

Nickel plated Arrow set 2 7/8" x 7". w/SS profile nipple & J lock on/off tool.
 Set on 1/3/13 @ 12,100'.

Bottom packer

Nickel plated Arrow set 2 7/8" x 7" 32#. w/carbine slips. Right hand set & release.
 2.31 X Profile nipple. J lock on/off tool left hand release.
 Confirmed packer is stuck on 12/20/12 @ 12179'Set @ 12,179.40'.

7", 29# & 32# production casing @ 12,253'.
OH section 12,253'-12,253'.

Lucky Rental Tools. Inv date-8/25-8/31/17. INV#20996LH-IN.