

UNITED STATES **N.M. Oil Cons. DIV-Dist. 2**
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
1901 W. Grand Avenue
Albuquerque, NM 88210

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

RECEIVED

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1950 FSL 750 FWL NWSW(L) Sec 10 T18S R27E

5. Lease Serial No.

NM025604

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Horsetail Gas Com #2
Federal

9. API Well No.

30-015-33528

10. Field and Pool, or Exploratory Area
Empire Morrow, South

11. County or Parish, State

Eddy NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other <u>Completion</u> |
| <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

ACCEPTED FOR RECORD

JAN - 5 2005

LES BABYAK
PETROLEUM ENGINEER

See Attached

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Title

Date

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

HORSETAIL GAS FEDERAL #2

10/19/2004 CMIC: henrich/davis

road unit & crew to loc., move in matting boards & pipe racks, spot & rig up, move in & rig up reverse unit, nu 5k hyd. bop, unload, rack & tally 315 jts. 2 3/8" L-80 8 rnd. tbgs., rih w/4 3/4" bit, 5.5" csg. scraper & 304 jts. tbgs., tag up @ 9867', pu to 9839' sisd!

10/20/2004 CMIC: henrich/davis

0# sip, rih w/1 jt. to 9867', miru halliburton, pump 300 gals. xylene & 500 gals. 7.5% acid down tbgs. & displace to pit w/214 bbls. 6% treated kcl water, test csg. to 3000#(OK), pu to 9655', spot 1000 gals. 7.5% hcl acid across perf. interval, rd halliburton, pooh w/2-3/8" tbgs., csg. scraper & bit, load csg. w/16 bw, nd bop, nu frac valve & bop, sisd!

10/21/2004 CMIC: henrich/davis

0# sip, miru baker atlas wl, rih w/logging tools, tag pbt @ 9851', press. csg. to 1000#, run cmt. bond log from pbt to surface (toc @ surface) rih w/4" tag guns loaded w/predator charges, perforate lower morrow formation (9626'-9628', 9634'-9638', 9651'-9655')(26 holes)(36.5" penetration, .47" entry hole) no show of gas or fluid level change, pooh, rd wl, sisd! (will break perfs. down & put acid away in am)

10/22/2004 CMIC: henrich/davis

csg. on slight vac., load 5.5" annulus w/1 bw & press. to 500#, miru halliburton coyote truck, load 5.5" csg. w/3 bw, formation broke @ 2450#, pump 35 bw to put spot acid away, atp 3200#, air 3 bpm, isip 2700#, 5 min. 2275#, 10 min. 2065#, 15 min. 1910#, si, rd halliburton, sisd for weekend! (baker atlas reevaluated bond log, toc @ 2700')

10/26/2004 CMIC: henrich/davis

0# sip, nu stinger csg. saver, miru halliburton frac equip., frac well as follows.

stage 1; pump 5711 gals. 63.9% co2 foam; atp 5325#, air 22.5 bpm

stage 2; pump 707 gals. 67.5% co2 foam carrying 1188# of 18/40 mesh sand @ 0.5 ppg, atp 5945#, air 23.1 bpm

stage 3; pump 1006 gals. 67.8% co2 foam carrying 3061# of 18/40 mesh sand @ 1.0 ppg, atp 6028#, air 23.4 bpm

stage 4; pump 1039 gals. 67.6% co2 foam carrying 4111# of 18/40 mesh sand @ 1.5 ppg, atp 6090#, air 23.7 bpm

stage 5; pump 1359 gals. 67.2% co2 foam carrying 6793# of 18/40 mesh sand @ 2.0 ppg, atp 6124#, air 24.2 bpm

stage 6; pump 1481 gals. 67.2% co2 foam carrying 8831# of 18/40 mesh sand @ 2.5 ppg, atp 6231#, air 24.9 bpm

stage 7; pump 814 gals. 64.2% co2 foam carrying 7952# of 18/40 mesh sand @ 3.0 ppg, atp 6326#, air 23.9 bpm

stage 8; pump 5354 gals. 27.2% co2 foam flush, atp 6675#, air 12.6 bpm

isip 6450#, 5 min. 6043#, 10 min. 6085#, 15 min. 5835#, total sand 35000#, total load from frac 395 bbls. (total load to rec. 678 bbls.), si, rd halliburton, hook up choke manifold to csg. saver, sicp 6500#, open well to tank & bleed down to 3500#, si, nd csg. saver, sitp 4800#, open well to tank on 10/64" choke, rec. 0 bo, 187 bw in 18 hrs., ffcf 170# on f/o choke, est. rate 2463 mcfd, con't flowback. (491 blwtr)(co2 100%)

10/27/2004 CMIC: henrich/davis

ftp 170# on f/o choke, rec. 35 bw in 6 hrs. & well died, si for 2 hrs., well built up to 160# in 2 hrs., open to tank on f/o choke, well bled down to 0# in 10 min., watch well for 1 hr., did not rec. any fluid, sisd!

10/28/2004 CMIC: henrich/davis

sip 550#, miru baker atlas wl, rih w/4.60" gauge ring & junk basket, tag up @ 9469'(398' fill)(157' above top perf.), pooh, rd wl, sip 620#, open well to tank on 14/64" choke, flow well for rest of day, rec. 0 bf, ffcf 100# on 14/64" choke, est. rate 240 mcfd, sisd!

10/30/2004 CMIC: henrich/davis

sip 745#, open well to tank, well bled down to 0# in 10 min., miru halliburton coil tbgs. unit, rih w/wash nozzle on 1 3/4" ct, clean out sand to pbt @ 9864', wash through perfs. 4 times, run back to bottom, chc, blow well dry w/n2, si, press. well up to 940# w/n2, pooh, rd halliburton, sisd!

10/31/2004 CMIC: henrich/davis

sip 1150#, miru baker atlas wl, rih w/4.60" gauge ring & junk basket, tag up @ 9711', pooh, rih w/baker model DB production pkr. on wl & set @ 9590', pooh, rd wl, sip 1250#, bleed down in 1 hr., rih w/seal assy. & 2 3/8" tbgs., latch into pkr., space out, nd bop & frac valve, nu tree & land w/10,000# compression on pkr., sisd for weekend!

1-2 3/8" wleg	-	.33
1-2 3/8" x 1.81" R nipple w/1.76" nogo	-	1.02
1-2 3/8" L-80 8 rnd. pup jt.	-	10.02
1-baker model 44-26 DB retainer prod. pkr.	-	3.15
1-baker 40-26 anchor seal assy.	-	.54
1-2 3/8" L-80 8 rnd. pup jt.	-	1.67
1-2 3/8" x 1.875" F x 4.5" L-10 on/off tool (inverted)	-	1.90
294-jts. 2 3/8" L-80 8 rnd. tbgs.	-	9534.79
2-2 3/8" L-80 8 rnd. pup jts.	-	20.04
1-jt. 2 3/8" L-80 8 rnd. tbgs.	-	32.44
total	-	9605.90
kbc to wireline	-	-1.38
bottom of pipe	-	9604.52
1.81" @ 9603.17	pk. @ 9590.00	1.87" @ 9585.89

11/02/2004 CMIC: henrich/davis

0# sip,load csg. w/140 bbls. treated 6% kcl & test csg. & pkr. to 1500#(OK)pmp 10 bbls. down tbg.,miru pro slickline truck,rih w/pulling tool & fish eq prong out of plug,pooch,redress tools & rih to fish plug,latch onto plug & jar loose,pooch,did not have plug & pulling tool was packed w/frac sand,decide to flow well overnight,open well to tank & watch for 1/2 hr.,well did not start flowing, ru swab,make 1 swab run & kicked well off,well flowed for 4 hrs. & died,rec. 15 bw,turn well over to pro flow back hand,si for 2 hrs. & press. built to 525#,open well to tank on f/o choke,well flowed for 2.5 hrs. & died,si for 2 hrs.,press. built to 480#,open to tank on f/o choke,well flowed for 6.5 hrs. & died,si @ 5:30 am mst,will try to fish plug this am,rec. total of 32.5 bw in 13 hrs.

11/03/2004 CMIC: henrich/davis

1.5 hr. sitp 450#,ru slickline truck,rih w/pulling tools,tag up 5' high,tools tried to stick,jars loose & pooch,tools full of sand,rih w/baler,clear sand off top of plug in 3 runs,rerun pulling tools,latch onto plug & try to jar loose & tool sheared,pooch,redress tool & rih,latch onto plug & jar loose,pooch,rec. plug,rd slickline,sitp 1000#,open well to tank on 22/64" choke,well flowed back 5 bw in 1 hr. & died,ru swab,rec. 5 bw in 3 hrs.,ifl scattered from 6500' to pkr.,ffl scattered from 7500' to pkr.,slight gas while pulling swab,sisd!

11/04/2004 CMIC: henrich/davis

sitp 1600#,open well to tank on 22/64" choke,well bled down to 0# in 45 min.,rec. 5 bw,ru swab,rec. 19 bw in 9 hrs.,ifl scattered from 7000' to pkr.,ffl scattered from 7500' to pkr.,total fluid rec. for day 24 bw,well would have a good gas blow after each swab run for about 2 min. & then die down to slight blow,rd swab,miru pro slickline,rih w/sinker bars & tag up @ 9692'(37' below bottom perf.)pooch,rd pro,sisd!(375 blwltr)

11/05/2004 CMIC: henrich/davis

sitp 1700#,open well to tank on 22/64" choke,well bled down to 0# in 45 min.,no fluid rec.,ru swab,rec. trace of oil,13 bw in 9 hrs.,ifl scattered from 7500' to pkr.,ffl same,well had good gas blow for about 2 min. after each swab run & then would die off to nothing,sisd!(362 blwltr)

11/06/2004 CMIC: henrich/davis

sitp 1700#,open well to tank on 12/64" choke,rec. 0 bo,5 bw in 10 hrs.,fftp 250# on 12/64" choke,est. rate 200.5 mcf,isd!(357 blwltr)

11/09/2004 CMIC: henrich/davis

sitp 2450#,open well to tank on 14/64" choke,rec. trace of oil,30.5 bw in 23 hrs.,fftp 150# on 14/64" choke,est. rate 167.4 mcf,will run press. bombs this am!(327.5 blwltr)(co2 14%)

11/10/2004 CMIC: henrich/davis

ftp 170# on 14/64" choke,rec. 6.5 bw in 5 hrs.,miru pro slickline truck,rih w/press. bombs getting flowing gradients,set press. bombs in 1.87"F nipple,pooch,rd pro,si for 24 hr. buildup,sd!(fftp 180#)(321 blwltr)

11/11/2004 CMIC: henrich/davis

sitp 1850#,miru pro slickline truck,rih & fish press. bombs,pooch,rih w/ 1.81" S-LOK blanking plug,pooch,rd pro,bleed well down,load tbg. w/33 bbls. of treated 6% kcl & test plug to 1500#(OK),nd tree,nu bop,release on/off tool & pooch w/101 jts. 2 3/8" tbg.,sisd!

11/12/2004 CMIC: henrich/davis

0# sip,finish pooch w/tbg. & on/off tool,miru baker atlas w/rih w/4" tag guns loaded w/predator charges @ 2 spf,correlate to open hole log,perforate upper morrow formation from 9549'-9560'(24 holes),pooch,no fl change or press.,rd w/rih w/prod. pkr. & tbg.,set pkr. @ 9493',release on/off tool & displace hole w/180 bbls. 6% kcl containing clay stabilizers & pkr. fluid,latch onto pkr.,nd bop,nu tree,test csg. & pkr. to 1500#(OK)ru swab,swab tbg. down to 3000' in 1 hr.,no gas,sisd!

1-2 7/8" wleg	-	.44
1-2 3/8" x 5 1/2" baker model M reliant pkr.	-	6.37
1-2 3/8" x 1.875"F x 4 1/2" on/off tool	-	1.65
292-jts. 2 3/8" L-80 8 rnd. tbg.	-	9469.78
kbc to wl	-	0.00
bottom of pipe	-	9478.24
pk. @ 9471.43	1.87 @	9469.78

11/13/2004 CMIC: henrich/davis

sitp 0#,ru swab,rec. trace of oil,17 bw in 2 hrs. & well kicked off flowing,ifl 3000',rd swab,miru stinger tree saver,miru halliburton,acidize well w/2000 gals. 7.5% hcl & 20 bio balls w/50% co2,formation broke @ 5730#,flush to top perf. w/50% co2 foam,isisp 1606#,5 min. 317#,10 min. 340#,15 min. 338#,si,max. tp 5730#,avg. tp 4650#,avg. rate 4.0 bpm,si,rd halliburton,nd tree saver,sitp 400#,total load 66 bbls.,open well to tank on 14/64" choke,rec. 179.5 bw in 18 hrs.,fftp 560# on 32/64" choke,est. rate 3512.3 mcf,con't flow testing!(113.5 bbls. overload)(co2 1%)

11/14/2004 CMIC: henrich/davis

ftp 540# on 28/64" choke,rec. 0 bo,44.5 bw in 24 hrs.,est. rate 2558.0 mcf,con't flow testing!(158 bbls. overload)(co2 0%)

11/15/2004 CMIC: henrich/davis

ftp 560# on 28/64" choke,rec. 34 bo,5 bw in 24 hrs.,est. rate 2652.7 mcf,will si well & turn over to BP to put on line this am!(163 bbls. overload)(co2 0%)

11/16/2004 CMIC: henrich/davis

ftp 580# on 28/64" choke,rate 2747.5 mcf,shut well in,nd choke manifold,nu manumatic valve & choke on tree,rig unit down,clean loc.,move off loc.