

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Synergy Operating, LLC

3. Address and Telephone No.

PO Box 5513 (505) 325-5449
Farmington, NM 87499

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

1905' FSL & 1604' FWL Sec 28, T29N, R04W

5. Lease Designation and Serial No.

NMNM-18327

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

29-4 Carson 28 # 1

9. API Well No.

30-039-2467300

10. Field and Pool, or Exploratory

Wildcat NACIMIENTO (GAS)

11. County or Parish, State

Rio Arriba County
New Mexico

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

TYPE OF SUBMISSION

TYPE OF ACTION

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

- ☐ Abandonment
☒ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well
Completion or recompletion Report and Log Form)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including, estimated date of starting work.
If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones of pertinent to this work.

SYNERGY OPERATING, LLC REQUESTS TIGHT HOLE STATUS (CONFIDENTIAL STATUS) OF THIS INFORMATION FOR A PERIOD OF ONE (1) YEAR.

SYNERGY OPERATING, LLC WILL ATTEMPT TO RESTORE PRODUCTION FROM THE NACIMIENTO FORMATION. IF WE ARE UNSUCCESSFUL IN COMPLETING THE NACIMIENTO, THEN WE WILL MOVE UP HOLE AND TEST THE SAN JOSE FORMATION.

PLEASE REFERENCE THE ATTACHED PROCEDURE AND WELLBORE DIAGRAM INFORMATION.

AGAIN, SYNERGY REQUESTS TIGHT HOLE STATUS OF THIS INFORMATION FOR A PERIOD OF ONE (1) YEAR.

14. I hereby certify that the foregoing is true and correct

Signed: Thomas E. Mullins
Thomas E. Mullins

Title: Engineering Manager

Date: 8/9/2000

This space for federal or state office use

Approved by: _____
Conditions of approval if any

Title: _____ Date: 8/10/00

Carson 29-4 28 # 1

Unit K, Section 28 – T29N – R04W

1905' FSL, 1604' FWL

SYNERGY OPERATING, LLC

Nacimiento and San Jose Completion Procedure

Notes:

3000 psi Wellhead

5-1/2" 17# N-80 Casing (Burst 6190 psi @ 80%, Collapse 5025 psi @ 80%)

2-7/8" 6.5# EUE J-55 Tubing at 2901' KB (Burst 5800 @ 80%, Collapse 6140 @ 80%)

2"x 1-1/4" Pump & 113 - 7/8" Rods

PBTD currently at 2928' KB w/ CIBP

Perfs shot (Not Broken Down) @ 2609'(2), 2614'(2), 2736'(2), 2741'(2), 2851', 2852', 2853'(2), 2854', 2876', 2877'(3), 2878', 2879', 2880'(3), 2881' Total Holes Shot = 23

Two-Squeeze Holes @ 1560'.

- 1) Verify that Anchors have not been removed. All four (4) found and marked in June 2000.
- 2) Call NM One Call (Complete Faxed Form) and have Williams & Synergy note where all pipelines run.
- 3) Bring in Roustabout Crew/Backhoe, L&R Oilfield Services. Clean-up location, knock down weeds & brush. Adjust where the bar ditch from the road cuts across location, so that the rig can easily get set-up. Repair Flowline on tank battery. Bring Flowback lines and manifold with roustabout crew. RU lines to the pit, and casing. L&R Oilfield Services.
- 4) With Backhoe, dig, fence, and line, a small workover pit with the following dimensions (8 feet deep, 12 feet wide, 12 feet in length).
- 5) Work lockdown pins on tubing hanger, to ensure that they will backout easily. Unplug all valves. Obtain shut-in pressures on the tubing, casing, and bradenhead valves. Check the wellhead on the 29-4 28 # 3. Obtain pressures on the tubing, casing, and bradenhead valves of this well.
- 6) Notify Carson Forest Service Personnel (632-2956), and BLM (599-8907) (24 hours prior to starting operations).
- 7) MIRU Workover rig. ND beam pumping head. RU to pull 7/8" rods
- 8) Blow down casing to the pit.
- 9) RU to pull and lay down polish rod and 113 - 7/8" rods (25' in length). Lay rods down on boards to the side of the pumping unit. Pump down tubing if necessary to kill the well. Lay the pump down as well. Pump is a 2"x 1-1/4" pump (Assumed Top Hold Down) ? Contact Pump Company for Lining up Credit.
- 10) Kill tubing with 10 bbls water, note if casing circulates.
- 11) ND WH. NU BOPE. Test operation of BOPE. Ensure that pipe rams, slips, and elevators are available to pull 2-7/8" 6.5# EUE tubing.
- 12) Unseat tubing hanger, inspect rubber, check for BPV receptacle.
- 13) PU 1 Jt of 2-7/8" 6.5# J-55 Tubing. GIH and tag fill or CIBP @ 2928'. LD 4 Jts (3 old + 1 New).
- 14) COOH and tally the total 95 Joints of 2-7/8" 6.5# J-55 Tubing from 2901' KB. Common SN (2.31" ID) one jt off btm.
- 15) RU Blue Jet, Inc. RU Pack-off. RIH w/ 5-1/2" 17# gauge ring. POOH.

TIGHT
HOLE

- 16) RIH w/ 5-1/2" 17# CIBP. Set CIBP @ 2820'. Correlate setting depth with Halliburton GR-CCL-CBL run 10/25/95. This plug will isolate fifteen (15) holes from 2851' to 2880'. POOH w/ setting tool. RIH w/ 3-1/8" dump bailer. Mix and dump bail 5 sxs of cement on top of the CIBP. POOH.
- 17) Close blind rams. With Rig Pump. Test 5-1/2" Casing and 2 Squeeze Holes (1560'), and remaining eight (8) unbroken down perforations 2609' to 2741' to 750 psi with the rig pump, hold for 30 mins. (4.892" ID) Casing Capacity = 65.55 bbls. Witness Pressure Test for BLM
- 18) Bleed Off Pressure. Open Blind Rams.
- 19) Blue Jet, Inc. RIH with 3-1/8" HSC gun (Owen 302 Charges 0.36" dia hole), shoot two six foot guns 2 SPF, in one gun run. Perforate Nacimiento Perforations at 2724' to 2730' (6' - 12 holes) and 2602' to 2608' (6' - 12 holes) Total of 24 new perforations and 8 existing: 32 TOTAL. With the rig pump, place 500 psi pressure on the casing prior to perforating the first setting.
- 20) RD and release Blue Jet.
- 21) PU Baker Lockset 5-1/2" 17# Packer on 2-7/8" tubing. Run in the hole and set the PKR @ 2775'. Have a 10' 2-7/8" tubing sub on location to assist in the spacing of the tubing.
- 22) RU BJ Services Acid Frac and Nitrogen Pump. **TOTAL ACID IS 500 GALLONS OF 10% Acetic, w/ inhibitors.** Install BJ valve on top of tubing. Test BJ Services Lines to 6000 psi. Load the tubing and test the packer, tubing and the CIBP to 4000 psi. Bleed off the pressure. Release the PKR. Pull the PKR up and reset the PKR @ 2650'+/-. Breakdown the 12 new and 4 existing perforations from 2724' to 2741' with 2% KCl water and 250 gallons acetic acid. Breakdown zone on water to start. Pump 5 bbls @ 4 BPM, SD, record ISIP. Pump 250 gallons (6 bbls), dropping 1 ball per bbl of acid, then dropping 19 ball sealers in the first 6 bbls of displacement. Displacement down just the 2-7/8" tubing is 15.5 bbls. Pump at maximum rate and pressure. Ball off interval to 4000 psi. Surge balls off perforations. Displace acid with 5 additional bbls water. SD & record ISIP.
- 23) Bleed off. Release PKR. Pull PKR up and reset PKR @ 2500'+/-. Install BJ valve on top of tubing. Test BJ Services Lines to 6000 psi. Breakdown the 24 new and 8 existing perforations from 2602' to 2609' and 2724' to 2741' with 2% KCl water and 250 gallons acetic acid. Breakdown zone on water to start. Pump 5 bbls @ 4 BPM, SD, record ISIP. Pump 250 gallons (6 bbls), dropping 1 ball per bbl of acid, then dropping 19 ball sealers in the first 6 bbls of displacement. Displacement down just the 2-7/8" tubing is 14.5 bbls. Pump at maximum rate and pressure. Ball off interval to 4000 psi. Surge balls off perforations. Displace acid with 5 additional bbls water. SD & record ISIP.
- 24) Release the PKR. GIH w/ the PKR and knock the ball sealers off all the perforations. Pull PKR up and reset the PKR at 2500'. ND Top Tubing Collar. RU 2-9/16" 5000 psi threaded frac Valve on top of the tubing. RU BJ Services Valve on top of 5000 psi frac Valve. RU BJ Services Frac Y on top of Frac Head. Load Annulus with water, until full. Test with Rig pump to 250 psi.
- 25) Prepare to Frac Nacimiento Intervals with 2 Acid Fracs, and 2 Nitrogen Pumps. Roll 12 Gallons Flowback 20, 35 Gallons Foamer, and 1 Sack Guar Gel into Frac Tank containing 250 bbls of water. Test Frac Lines to 6000 psi, against BJ Valve, Test 5000 psi against Synergy Valve. Maximum Treating Pressure to be 4500 psi. Install check valve on N2 line and Liquid Line.
- 26) Pump Acid Frac Nitrogen Foam Job at 5 BPM Liquid, 7500 scfm, 75 Quality Nitrogen Foam, Total Rate 20 BPM. Run Sand Smoothly using Buckets Acid Frac Tub, Use Tub Closest to the Wellhead. Flush with Foam. Total Sand 2000 lbs 20/40. 180 bbls Gel Water, 270,000 SCF Nitrogen. SD from Frac Job. Record ISIP.
- 27) Close BJ Valve, then Synergy Valve. Bleed Off Pressure. RD BJ Services.

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- 28) RU Flowback Line with Tees to Flowback Manifold. Ensure Pressure Gauge is in Manifold, and that a Single 3000 psi Ball Valve is off the Wing. Open Pressure to Manifold, and record pressure. Begin Flowback on 2" Line, with 1/4" Choke, for 6 Hours. Switch to 1/2" Choke and continue Flowback.
- 29) Synergy will evaluate results of this flow test before proceeding. Expect 2 Days of Downtime.
- 30) Obtain Water Sample, and Gas Sample from Manifold Outlet. Send Gas Sample to Gas Analysis for Evaluation. Close-In Well. Record Shut-in Pressures.
- 31) RU to Kill Tubing. ND Valve, Install Tubing Collar. Paint Top of Joint so that It will not be used again for a Frac. Release PKR. LD Top Joint of 2-7/8".
- 32) COOH with PKR and Tubing.
- 33) RU Blue Jet, Inc. with Pack-Off.
- 34) RIH with Wireline Set 5-1/2" 17# CIBP. Set CIBP @ 2500'. POOH.
- 35) RIH with Dump Bailer, and dump bail 2 sxs of cement on top of retainer @ 2500'.
- 36) Fill Hole from Surface with Rig Pump. Test CIBP, and Casing to 750 psi. Hold Pressure 30 for Witnessed State test. Bleed off pressure.
- 37) RIH with 3-1/8" HSC perforating Guns, two (2) – Six foot guns @ 2 SPF 120 deg phase. Perforate San Jose Formation as follows. Correlate setting depth with Halliburton GR-CCL-CBL run 10/25/95. 1906' to 1912' (6' – 12 holes), and 1922' to 1928' (6' – 12 holes). Total of 24 holes. POOH with guns. Place 500 psi on casing prior to firing first perforating gun.
- 38) PU Baker 5-1/2" Lockset Packer. GIH on 2-7/8" tubing. Set PKR @ 1700'.
- 39) RU BJ Services to Acidize and Breakdown San Jose Formation. Use Acid Frac and 300 gallons of 10% Acetic Acid with inhibitors. Run 40 7/8" 1.3 SG ball sealers during Acid. Breakdown perforations on water. Maximum Pressure is 5000 psi. Establish rate into holes. SD record ISIP. Pump acid and ball sealers. Ball-Off perforations. SD. Bleed off Pressure. Displace Acid into perforations.
- 40) Release PKR. GIH and knock ball sealers past perforations. Pull PKR up to 1700'. Pump 10 bbls of water down annulus to displace any acid on backside of PKR. Set PKR @ 1700'.
- 41) ND Top Tubing Collar. RU 2-9/16" 5000 psi threaded frac Valve on top of the tubing. RU BJ Services Valve on top of 5000 psi frac Valve. RU BJ Services Frac Y on top of Frac Head. Load Annulus with water, until full. Test with Rig pump to 250 psi.
- 42) Prepare to Frac San Jose Interval with 2 Acid Fracs, and 2 Nitrogen Pumps. Roll 12 Gallons Flowback 20, 35 Gallons Foamer, and 1 Sack Guar Gel into Frac Tank containing 250 bbls of water. Test Frac Lines to 6000 psi, against BJ Valve, Test 5000 psi against Synergy Valve. Maximum Treating Pressure to be 4500 psi. Install check valve on N2 line and Liquid Line.
- 43) Pump Acid Frac Nitrogen Foam Job at 5 BPM Liquid, 7500 scfm, 75 Quality Nitrogen Foam, Total Rate 20 BPM. Run Sand Smoothly using Buckets Acid Frac Tub, Use Tub Closest to the Wellhead. Flush with Foam. Total Sand 2000 lbs 20/40. 180 bbls Gel Water, 270,000 SCF Nitrogen. SD from Frac Job. Record ISIP.
- 44) Close BJ Valve, then Synergy Valve. Bleed Off Pressure. RD BJ Services.
- 45) RU Flowback Line with Tees to Flowback Manifold. Ensure Pressure Gauge is in Manifold, and that a Single 3000 psi Ball Valve is off the Wing. Open Pressure to Manifold, and record pressure. Begin Flowback on 2" Line, with 1/4" Choke, for 6 Hours. Switch to 1/2" Choke and continue Flowback.
- 46) Synergy will evaluate results of this flow test before proceeding.
- 47) Obtain Water Sample, and Gas Sample from Manifold Outlet. Send Gas Sample to Gas Analysis for Evaluation. Close-In Well. Record Shut-in Pressures.
- 48) RU to Kill Tubing. ND Valve, Install Tubing Collar. Paint Top of Joint so that It will not be used again for a Frac. Release PKR. LD Top Joint of 2-7/8".
- 49) COOH with PKR and Tubing.

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- 50) RIH with expendable check on 2-7/8" production tubing, 1 jt 2-7/8", 2-7/8" F-nipple (2.25" ID), and remaining tubing. GIH and tag sand fill. Land EOT @ 1900'.
- 51) Ensure tubing hanger is threaded for a BPV receptacle. ND BOPE. NU 3000# threaded bonnet, and screw threaded 2-9/16" Frac valve from earlier on top as master valve.
- 52) Secure Well location.
- 53) RD and release rig to next Synergy Location.

Name

Tom Mullins

Contact Numbers

325-6561 office, 320-1751 – mobile, 327-8692 – pager

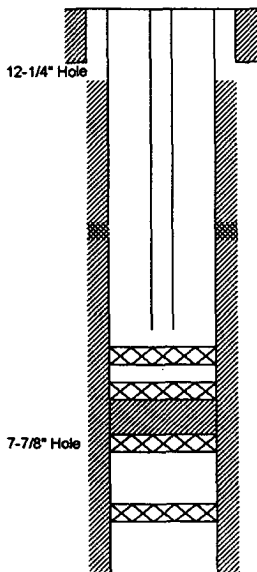
TIGHT
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Carson 29-4 28 # 1
Unit K, Section 28-T29N-R04W
1905' FSL, 1604' FWL
7401' GL, 13' KB

Ararhoe # 7
Bayless Rig # 6

Spud: 07/21/90
Completed: 11/7/90

API # 30-039-2467300



8-5/8" 24# K-55 Casing @ 259' w/ 210 sxs
Circulated 5 bbls cement to surface
Cement Fell Back, Cmt 30 sxs down annulus

2-7/8" 6.5# J-55 Tubing @ 2901', SN one ft up (95 jts)
2" x 1-1/4" Pump & 113 -7/8" Rods

2 Sqz Holes @ 1560', Cemented w/ 300 sxs. TOC Temp Survey 500'+/-

DV Tool @ 2033' (See Cmt Detail Below)

CIBP @ 2928'
Cmt Retainer @ 3520' (Cmt from 3515' to 3613')
CIBP @ 3700'
CIBP @ 4000'

Nacimiento Perforations
Open Perfs from 2609' to 2880'

Fruitland Coal Perforations

Upper: 4086'-4088', 4130'-4139' (10 Holes) Frac w/ 10K 40/70 & 11K 20/40 in 70Q N2 Foam (Screen Out)
Lower: 4164'-4190' (18 Holes) Frac w/ 20K 40/70 & 120K 20/40 in 70Q N2 Foam

5-1/2" 17# N-80 Casing @ 4496', w/ 1st Stage w/ 200 sxs 50/50 Poz 2% gel 0.6% Haled 322
tail with 225 sxs B w/ 0.4% Haled 344, 0.4% CFR-3 & 2% Super CBL
Circulate 3 hrs, 2nd Stage w/ 350 sxs Howco Lite 0.6% Haled 322, 2% KCl and 1/4# Flocel,
tail with 50 sxs B neat. Lost Circulation 28 bbls into Displacement.

Formation Tops	
San Jose Surf	
Nacimiento	
Ojo Alamo	3642'
Kirtland	3862'
Fruitland	3980'
Pict Cliffs	4192'
Lewis	4440'

Formation Name: Fruitland Coal

Drill out DV Tool, CO to PSTD 4456', RU Basin, Run GR-CCL-CBL 4438' to 1800',
Spot 7-1/2% HCl acid across Coal zone. Perforate 4164', 4166', 4167', 4168', 4170', 4171', 4172', 4176', 4178', 4179', 4181',
4182', 4183', 4184', 4185', 4186', 4189', 4190' (18 holes) -0.38". Opened well the next AM. Hydrocarbons unloaded
to the pit and caught fire, burned off. GIH w/ SPIT tool, set across each perf and establish communication on all.
Set tool @ 4116', RU to swab. Making Gas after 5th run. COOH w/ tool. RU to Frac. Smith Energy Frac Lower Coal
w/ 20K 40/70 sand & 120K 20/40 sand in 70Q N2 at 45-55 BPM 2600 ATP, ISIP 1600 Foam Flush, SI 2-hrs flowback on 1/4" choke
Well making 5% Paraffin, Tag Sand Fill @ 4390', CO fill. RU Basin, Set 5-1/2" RBP @ 4150', PT 3000 psi Okay. GIH and Spot 7-1/2% HCl
Acid across Upper Coal perforations. Perforate Upper Coal interval at 4087', 4088', 4130', 4131', 4132', 4133', 4134', 4137', 4138', 4139' (10 Holes)
Break down perfs w/ SPIT tool, All Open, Set tool @ 4020', RU to swab. Recover Spent Acid, Paraffin, & Water, w/ good Gas Flow.
SITP = 1020 psi, COOH w/ tool. RU Smith Energy to Frac Upper Coal. Frac w/ 10K 40/70 sand and 11,290# 20/40 sand in 70Q N2 Foam
Well pressuring out, cut N2, flush w/ linear gel and 5ppg Blender sand concentration. ISIP 3600 psi. SI 2 hrs, Open well on 1/4" choke, Recovered
Plugs of Paraffin & Coal fines, GIH w/ tubing tagged sand bridge at 4118', GIH and retrieve RBP
Recover Frac Sand Coal fines and Paraffin. Cleanout to PSTD. Landed 2-7/8" tubing at 4282'. RD Release Bayless Rig # 6. RU Swab Unit. Swab Well
Recover Coal Fines, & Paraffin. 10-20-90 RU Big A # 5. Run 2" x 1-1/4" pump & 169 rods w/ 2 ponys.

Cement Squeeze

10-25-90 RU Bayless # 6, Pull Rods & Pump, RU Basin, Set RBP @ 1715', Test to 1000 psi, Perforate 2 holes at 1560', Pump into holes. RU Howco,
Pump 300 sxs B cement w/ 0.6% Haled 322, Displace w/ water to 1460'. Displaced at 1 BPM 2000 psi, Ran Temp Survey found TOC @ 500'+/-
DO cement, Test to 1000 psi, Recover RBP. Land tubing & New Pump Same Depths.

Nitrogen Cleanout & Acidize

06-19-91 RU R&S Rig # 27, LD Pump & Rods, Pull & LD 2 jts tubing. Install 2-7/8" valve. Reverse Circulate w/ 160 deg N2, recover 25% Paraffin, Reverse w/ 80 bbls 160 deg water
Recover Paraffin, Unload w/ N2. SI tubing, Pump 750 gals 20% HCl acid w/ N2 heated to 160 degs, Displace w/ N2 Foam @ 150 degs, SI 30 mins.
Flowback thru tubing. Recovering Large amount of Coal Fines and Paraffin, Install Plunger and Piston Catcher. SICP 650 psi. Swab Well and Trip Piston w/ same recovery. Recover
10% Paraffin w/ Coal Fines. 07-05-91 Piston Recovering 15% Paraffin, 5% Oil, 11 bbls H2O & 90 MCFD.

Formation Name: Ojo Alamo & Nacimiento

10-09-95 RU Big A # 11, LD Rods & Pump, Could not circulate out Paraffin w/ 90 bbls water. RU Blue Jet, Run GR-NEU-GSL log. Set CIBP @ 4000', FL @ 2870'.
PT RBP to 1600 psi. RU BJ Services, Spot 1200 gals 7-1/2% HCl at 3818'. RU Basin to Perforate 1 SPF @ 2609', 2614', 2736', 2741', 2853', 2877', 2880', 2941', 2989', 2992'
3001', 3254', 3302', 3380', 3384', 3392', 3405', 3428', 3435', 3438', 3470', 3472', 3487', 3490', 3538', 3584', 3613', 3784', 3792', 3824' (30 Holes)
GIH w/ Halliburton PKR set at 2432', Acidize w/ 1500 gals 15% HCl w/ ball sealers. Good Breaks. Swabbed back w/ FL @ 2400'.
Set PKR @ 3889', and Swab Test made 4 runs, swabbed dry, Reset PKR @ 3340', FL constant at 2200'. COOH w/ PKR. GIH w/ BP & PKR Combination
Set RBP @ 3340', Swab Test 2609' to 3340', FL constant at 2200', Set PKR @ 2494'. Swat test 2494' to 3340', FL constant at 2100'.
Move RBP to 3520'. Set PKR @ 3340', Swab test 3340' to 3520', FL constant at 2100', Release RBP, Set PKR @ 3520', Swab test 3520' to 3824', FL stable @ 2100'.
Reset PKR @ 3706', Swab Test 3706' to 3824', FL constant at 1800'. Set RBP @ 2920' & PKR @ 2790', Swab Test 2790'-2920', FL constant 1800' shows of gas. COOH w/ tools
10-19-95 Set CIBP @ 3700', Set Cmt Retainer at 3520'. Establish rate at 2 BPM 425 psi, Cement w/ 100 sxs (3538', 3584', 3613').
Tag cement at 2785', RU to swab, 7 runs swabbed hole dry. COOH w/ bit, GIH w/ PKR set at 2420'. PT to 1000 psi, bleeds off in 2 mins, Establish rate below 2420' of 2 BPM @ 1000 psi.
RU Halliburton, Cement w/ 50 sxs below PKR. Hesitate sqz to 1535 psi, displace to 2462'. Test Csg to 1000 psi, Release PKR, Tag TOC @ 2474'. Drill out
Cement from 2474' to 2616', PT Csg to 1000 psi, GIH to 2785', DO cement from 2785' to 2795', PT to 1000 psi, GIH to 2805', Tag Cement, DO from 2805' to 2969'.
PT Casing to 1000 psi, Okay, Drilled Cement from 2969' to 3030', PT 1000 psi, Okay, DO from 3030' to 3340', PT 1000 psi, Okay, DO 3340' to 3505', PT 1000 psi, Okay, DO
COOH w/ bit, RU Halliburton, Run GR-CBL log from 3515' to 1800', GIH w/ tubing, swab FL down to 2900', Attempt to perforate 2-1/8" sick gun, 4 attempts, No good.
RU Halliburton, Perforate thru tubing select fire at # 2 2609', 2614', 2736', 2741', 2853', 2877', 2880', 2941', 2989', 2992', 3001', 3254', 3302', 3380', 3384', 3392', 3405', 3428',
3435', 3438', 3470', 3472', 3487', 3490' (24 Holes), RU Swab Equipment, Swab Well Dry, Wait 30 mins, Well still Dry. SDON, FL @ 1700', GIH w/ Hal SPIT Tool
Set Tool across 3487'-3490', Formation Broke at 3200 psi, Treated 0.7 BPM @ 3000 psi, Set tool 3470' to 3472', Break down zone at 2300 psi, Treat 2 BPM @ 3000 psi,
Set Tool 3435' to 3438' Unable to breakdown zone at 3600 psi, Set tool across 3428', Unable to BD w/ 3800 psi, MIRU Basin Wireline. Shoot 3-1/8" guns Perforate
at 3490', 3487', 3472', 3470', 3438', 3435', 3428', 3405', 3392', 3384', 3380'. GIH w/ SPIT tool Set 3435'-3438', Spot 2 bbls 15% HCl at tool, Break down at 3000 psi, Treat 0.7 BPM
at 3750 psi, Reset across 3428', Break at 1600 psi, Treat at 2 BPM 1600 psi, Set across 3405', Break 2200 psi, Treat 2 BPM 2000 psi, Set 3392', Break at 3800 psi.
Treat at 2 BPM 1300 psi, Set across 3384', Break at 3800 psi, Treat 2 BPM 3800 psi, Set across 3380', Break 1600 psi, 2 BPM 1300 psi, Set tool @ 3350'.
RU to Swab, Recover all Water. RU Basin Wireline, Set 5-1/2" CIBP @ 2928', Perforate # 3 2881', 2880', 2879', 2878', 2877', 2876', 2854', 2853', 2852', 2851' (10 holes)
GIH w/ SPIT tool Set across 2851' to 2854', Break at 2000 psi, Treat 2 BPM 1125 psi, Reset tool across 2881' to 2876', Break 2000 psi, Treat 2.5 BPM 1800 psi, Retrieve valve
RU to Swab, Swab zone Dry. RU to Acidize zone, Pump 600 gals at 1.8 BPM 225 psi. Reset across zone 2854' to 2851', Acidize w/ 400 gals 15% HCl
Rate 0.8 BPM at 300 psi. Set tool @ 2800'. Swab well dry, COOH w/ SPIT, GIH w/ 95 jts (2901'+/-), Swab well dry 45 bbls. Well swabbed dry. COOH, GIH w/
final tubing string, Mud Anchor, SN, 94 jts. Land Tubing at 2901' KB, Run Top Hold down pump & 113 7/8" rods Hang & Space Out.
RD and Move off Rig 10-31-95

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