

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMNM84652

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

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

1. Type of Well  
 Oil Well  Gas Well  Other: INJECTION

8. Well Name and No.  
HAMON FEDERAL COM 1

2. Name of Operator  
LEGACY RESERVES OPERATING LP  
Contact: STEVE OWEN  
E-Mail: sowen@legacyp.com

9. API Well No.  
30-025-30848

3a. Address  
PO BOX 10848  
MIDLAND, TX 79702

3b. Phone No. (include area code)  
Ph: 432-689-5200 Ext: 5287

10. Field and Pool, or Exploratory  
QUAIL RIDGE; ATOKA

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 7 T20S R34E NWNE 660FNL 1980FEL

HOBBS OCD

JUL 06 2016

11. County or Parish, and State  
LEA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<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 recomplete 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 recompletion 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 site is ready for final inspection.)

PLEASE FIND ATTACHED THE COMPLETION DAILY OPERATIONS REPORT FOR HAMON FEDERAL COM #1 SWD. ALSO INCLUDED IS THE WELLBORE DIAGRAM AND MIT CHART WHICH WAS WITNESSED BY KRISTAL HEADY-NMOCD. ORIGINAL WILL BE MAILED TO BLM-CARLSBAD OFFICE TODAY (06/13/16). CIT CHART WAS MAILED TO BLM ON 04/05/16.

*Annular Monitor System Required*

14. I hereby certify that the foregoing is true and correct.  
Electronic Submission #341778 verified by the BLM Well Information System For LEGACY RESERVES OPERATING LP, sent to the Hobbs

Name (Printed/Typed) STEVE OWEN Title SENIOR ENGINEER

Signature (Electronic Submission) Date 06/13/2016

**ACCEPTED FOR RECORD**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By \_\_\_\_\_ Title \_\_\_\_\_ Date JUN 24 2015

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, make 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.

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

Accepted for Record Only

*MWB/OCD 7/9/2016*

3160-5 Subsequent Report  
**Legacy Reserves**  
DAILY OPERATIONS REPORT - (All Days)  
2/24/2016 thru 4/18/2016

**Hamon Federal Com # 1**

Feb 24, 2016

Note: Notified Paul Swartz w/BLM Eddy County on 2/23/16 at 2:30 p.m. MST that Legacy would be moving on this well on 2/24/2016

Mar 2, 2016

Tagged TOC @ 13,159' Pat McKelvey with BLM witnessed the tag and verified tally, OK'd to proceed,

Mar 3, 2016

Set CIBP at 12,416'. Perforated 4 shots at 10,950'

Mar 4, 2016

Pumped 25 sacks class H neat cmt

Mar 7, 2016

Tagged TOC @ 12,185'. Met w/ McKelvey BLM in the a.m. before tag, instructed to call him w/result, notified and approved 1:58 pm.

Mar 8, 2016

Set CR @ 10,888 pumped 40 sx class H cmt to sqz Wolfcamp perms, left 5 sx on top of CR. Notified McKelvey w/BLM by phone 9:30 a.m. starting sqz procedure, approved, Paul w/BLM called at 11:50 a.m., filling in for McKelvey. Discussed process, will tag cmt in the morning.

Mar 9, 2016

Tag TOC @ 10,860' BLM PET McKelvey on location to witness, approved by BLM McKelvey and Paul Swartz. RBIH open ended to 9,656' DV tool 9,600' pumped balanced plug 30 sx 16.4# class H cmt.

Mar 10, 2016

Tagged plug from previous day. TOC @ 9356' McKelvey PET w/BLM witnessed. Pumped 97 sacks 16.4# class H cmt balanced plug from 9356'.

Mar 11, 2016

RIH tag TOC @ 8,824' McKelvey PET BLM witnessed, allowed by BLM to perforate at 8,800'. Perforate 4 holes at 8,800', no circulation to gas buster from tbq.

Mar 15, 2016

Perforate csg at 8,750' McKelvey PET for BLM witnessed and approved. No circulation from 8 5/8" csg, McKelvey PET BLM witnessed, Reversed lines, pumped 1/10 bbl down 8 5/8" csg to load, pressured to 1500 psi, held pressure, no circulation from tbq.

Mar 17, 2016

RIH w/ cement retainer, set at 8,677'. Pumped 150 bbls water with nitrogen 2 bbls/min at 2,800 psi, pumped 20 bbls Super Bond, flushed 20 bbls, Pumped 725 sx class H cement 12.5#, 530 sx class H cement 16.4# displaced w/49 bbls water, stung out of retainer, left 1 sack cmt on top of retainer. Tagged at 8,623'.

Mar 22, 2016

Resume drilling on cement retainer.

Mar 23, 2016

Resumed drilling cement. Drilled down to 8,755', fell through. Ran down tagged 8,824' TOC

Mar 24, 2016

Ran cement bond log from 8,796'-7,279' and 700' to 150' RD. Bond log shows several cement stringers inside surface casing. This log was e-mailed to Paul Swartz and discussed before

continuing the job. We agreed that this was as good a cement job as could be achieved without affecting the integrity of the injection casing.

Mar 28, 2016

Pumped 70 sacks class H 16.4# cement.

*Tagged at 8824 and pmp'd the 70s  
per operator email.*

Mar 29, 2016

Tagged TOC at 8,117' Mckelvey PET w/BLM witnessed, drilled from 8,117' down to 8,312'.

Mar 30, 2016

Pressured 5 1/2" csg to 2000#, monitored for 1 hour with chart recorder, held pressure, Pat Mckelvey PET w/BLM witnessed. Perforated (2) shots per foot at (8,140-8,183') (8,198'-8,210') (8,232'-8,237').

Mar 31, 2016

RIH w/to 8,260' spotted 4 bbls 15% NEFE HCL w/45.5 bbls 2% KCL water, pulled and set packer at 8,040'. Pressured tbg, exceeding max psi of 1,612, SD wait on orders. ATTEMPT TO CONTACT BLM PAUL SWARTZ AT 4:00 PM, NO ANSWER. Formation broke at 2106#. Acidize w/with 10,000 gal 15% NEFE with 200 ball sealers at avg rate 6 BPM at avg pressure 3552#, Max pressure 4317#, ISIP 2270#, 5 min 2005#, 30 min 1680#. Load to recover 364 BBL. Step rate test: 1 BPM, 10 BBL, 1740#; 2 BPM 20 BBL 2064#; 3 BPM 30 BBL 2371#. Discussed job situation with Paul Swartz the next A.M. We agreed at those rates and pressures the frac gradient wasn't exceeded, but that another step rate test would be run in six months or so to determine the parting pressure.

Apr 1, 2016 - Apr 13, 2016

Opened tbg to frac tank. Tbg flowed for 35 minutes recovered 7 bbls water, tbg dead, RU to swab to test zone for oil and gas production. Swab back load of 364 BBL. Have recovered 44 BBL over load. BLM requires 1000 BBLs to be swabbed back after acid load is recovered. BLM load left to recover 956 BBL. Swabbed back another 752 BBLs of water with no oil over 14 days. Contacted Paul Swartz to see if that was enough to confirm no oil or gas production from this zone.

Apr 14, 2016

RIH w/ W.L. re-entry guide, A.S.1x packer w/2.25" profile nipple, on/off tool, IPC tbg. Set packer at 8,075'. Load/test csg for 30 min w/500#, tested good, ND BOP, NUWH, installed 5000# stainless trim master valve. RD WSU in the a.m. left well shut in.

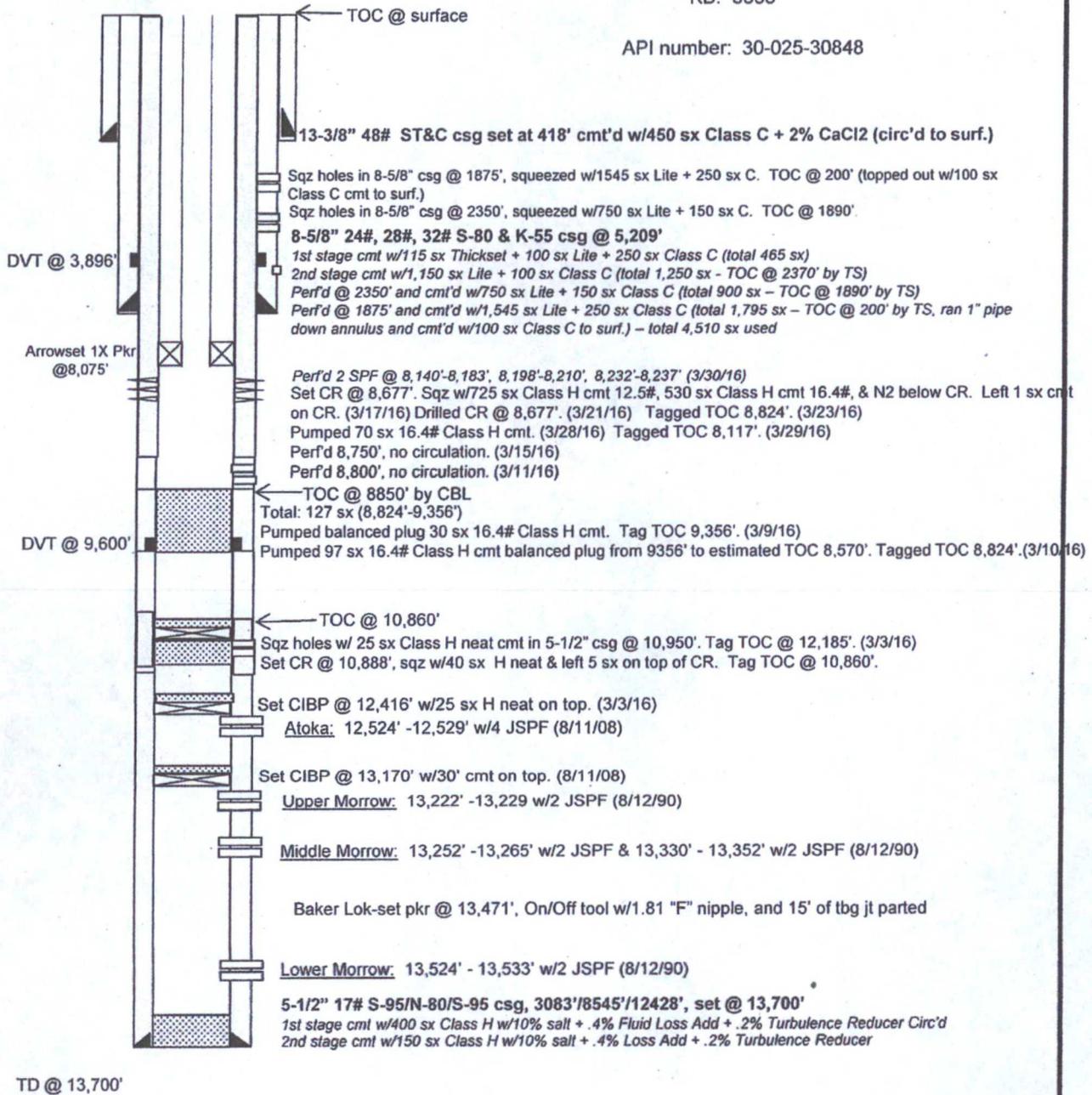


FIELD: QUAIL RIDGE (ATOKA)  
 LEASE: HAMON FEDERAL COM  
 COUNTY: LEA  
 STATE: NEW MEXICO  
 WELL: 1  
 LOCATION: 1980' FEL & 660' FNL,  
 Sec. 7, T20S, R34E

**CURRENT WELLBORE DIAGRAM**

GL: 3610'  
 KB: 3633'

API number: 30-025-30848



DATE: 05/17/16  
 SDO



Apr 12 (3 days ago)

Steve Owen <[sowen@legacylp.com](mailto:sowen@legacylp.com)>

Paul, this is the water analysis I promised you from the swabbing of the Hamon Fed Com #1 well we are converting to SWD. We are swabbing to confirm the currently perforated zone is not capable of producing paying quantities of hydrocarbons as per step #26 of the COA. We have swabbed back the load of 364 bbls plus an additional 694 bbls of produced water. The fluid level is staying at 2500 feet from surface. As per our conversation yesterday, with your approval, since this water sample shows no hydrocarbons and we have recovered only a skim, we will stop swabbing and run our injection equipment as per the approved procedure. If you would prefer that I do something else please let me know.

Stephen D. Owen  
Sr. Engineer  
Legacy Reserves PO Box 10848  
Midland, TX 79702  
432-689-5200  
[sowen@legacylp.com](mailto:sowen@legacylp.com)

-----Original Message-----

From: [martinwaterlabreports@nts-online.net](mailto:martinwaterlabreports@nts-online.net) [mailto:[martinwaterlabreports@nts-online.net](mailto:martinwaterlabreports@nts-online.net)]  
Sent: Tuesday, April 12, 2016 1:32 PM  
Subject: Report(s) from Martin Water Labs, Inc.HAMON FED

NOTE: If you respond to this email, YOU MUST REFERENCE THE LABORATORY # IN YOUR MESSAGE so that we may discuss it with you. This message is a default email sent from our Copier/Scanner and we do not keep a record of it.

Thank you and have a nice day.  
Thank you for your business.  
Martin Water Labs, Inc.  
(432)683-4521  
(fax)682-8819  
(email) [martinwaterlabs@nts-online.net](mailto:martinwaterlabs@nts-online.net)

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Attachments area



# Martin Water Laboratories, Inc.

*Analysts & Consultants since 1953*  
Bacterial & Chemical Analysis

TO: Mike Parrish  
ADDRESS: 303 W. Wall, Suite 1400, Midland, TX 79702  
COMPANY: Legacy Reserves  
LEASE: Hamon Fed Com #1  
FORMATION: perfs: 8,140'-8,237'

LABORATORY NO. 16-04-118  
SAMPLE RECEIVED: 4/12/16  
RESULTS REPORTED: 4/12/16  
COUNTY, STATE: Lea, NM  
FIELD OR POOL:

## DESCRIPTION OF SAMPLES

	No. 1	No. 2	No. 3	No. 4
<b>No. 1</b>	Submitted water sample - taken 4/12/16.			
<b>No. 2</b>				
<b>No. 3</b>				
<b>No. 4</b>				
<b>Chemical and Physical Properties (milligrams per liter)</b>				
Specific Gravity @ 60°F.	1.1785			
pH When Received	6.00			
Bicarbonate as HCO <sub>3</sub>	500			
Total Hardness, as CaCO <sub>3</sub>	131,000			
Calcium, as Ca	18,800			
Magnesium, as Mg	20,412			
Sodium and/or Potassium	64,336			
Sulfate, as SO <sub>4</sub>	2,069			
Chloride, as Cl	190,280			
Iron, as Fe	100			
Barium, as Ba	0			
Total Dissolved Solids, Calculated	296,398			
Hydrogen Sulfide	0.00			
Resistivity, ohms/m @ 77°F.	0.045			

**REMARKS:** The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

By: Greg Ogden, B.S.

(432) 683-4521 \* 709 W. Indiana, Midland, Texas 79701 \* (fax) 682-8819

Remit to Address: P.O. Box 98, Midland, Texas 79702

Email: martinwaterlabs@nts-online.net

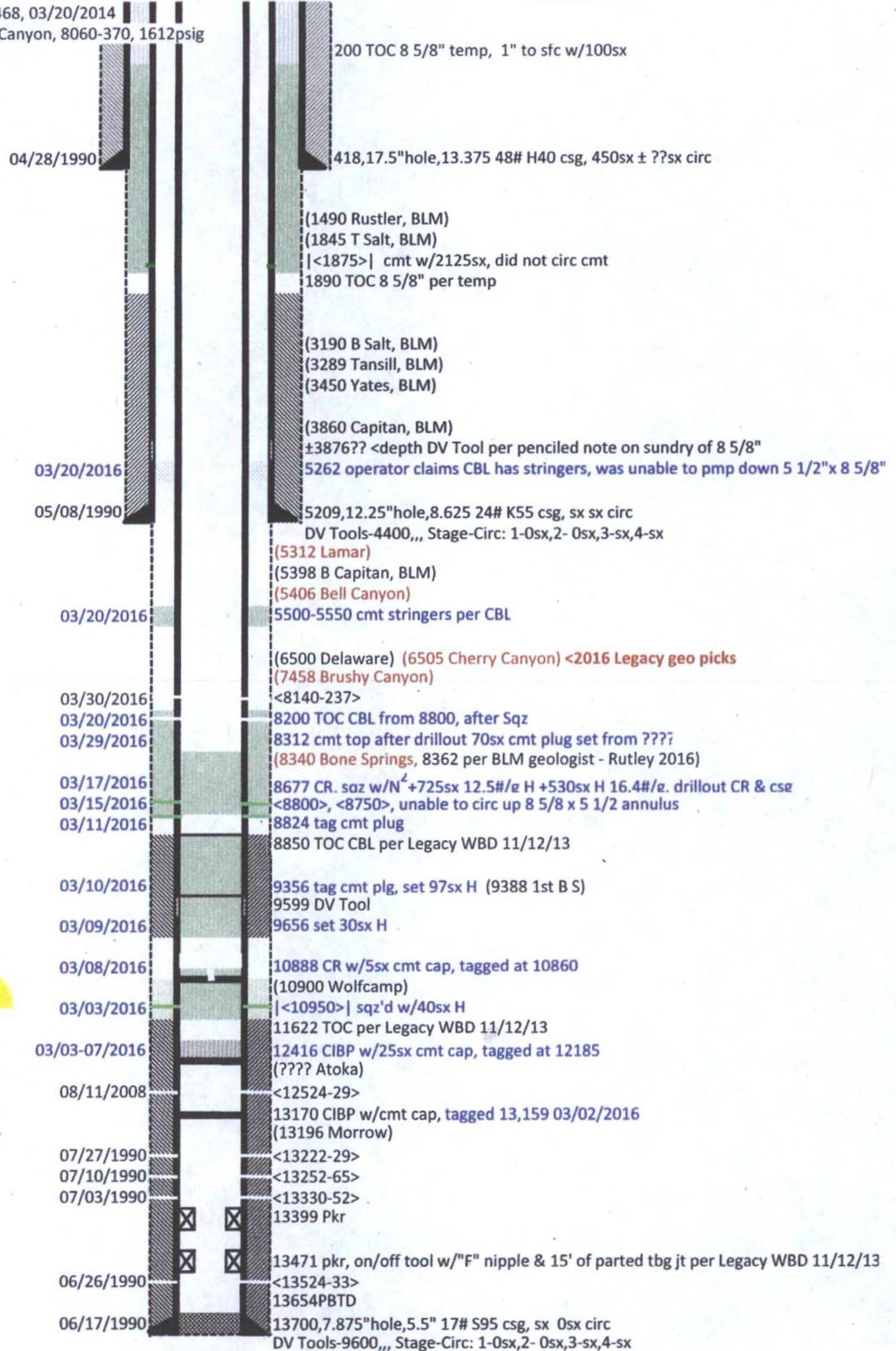
Operator: Legacy Reserves Operating, LP  
 Surface Lease: NM84652 BHL: NM84652  
 Case No: NM84652 Lease Agreement

Well: HAMON FEDERAL COM-1  
 API: 3002530848  
 @ Srfce: T20S-R34E,07.660n1980e  
 @ M TD: T20S-R34E,07.660n1980e

Subsurface Concerns for Casing Designs: R111P Cap  
 Well Status: Gas  
 Spud date: 04/28/1990  
 WDW, Rt of Way: 0  
 Admn Order, date: SWD-1468, 03/20/2014  
 Formation, Depths, psig: Brushy Canyon, 8060-370, 1612psig

KB: 3633  
 GL: 3610  
 Corr: 23

Estate: F\F\F



04/22/2016 MIT held 580psig  
 COAs require an Annular Monitoring Sys

Diagram last updated: 06/24/2016