

Investment Equipment  
Well bore Schematic - AS IS

Well: STATE OF COLORADO # 1-16  
Field: Scramble

SW NE 0R 660' FSL & 2310' FEL OF NE/4 OF  
SECTION 16-35S-46W BACA COUNTY, CO

Present: X  
Proposed:

Revised 03/01/10

24" CONDUCTOR  
SET AT 44 FEET

Original KB Elev 4242'  
GL 4231'

626' LOST 500 BBL OF 12# LCM

780' LOST 160 BBL OF 22# LCM

PARTIAL RETURNS TO 1864'

DST #1: 2747-2791' WOL

30-60-60-90. IHP 1324 PSIG. IF WEAK BLOW 1 1/2" I

FF, WEAK STEADY BLOW BUILDING AT END OF

BOTTOM OF BUCKET. FSIP 792 PSIG, FHP 1316

TIME 281 MINUTES. RECOVERY: 64 FEET OF MCO, 232 FEET

60% OIL 30% MUD 10% (BLACK, PARAFIN BASE ASA NWCAS'

GRANITE WASH

12/9/04: SWAB TEST 0.4 BOPD / 1.4 BWPD; ACIDIZE WITH 3000G 7 1/2% FE.

BDP 1250 PSI BROKE TO 168 PSI BALLED OFF AT 5 BPM TO 484 PSI.

ISIP 174 15 MIN 105 PSI. SWAB TEST < 5BOPD.

12/15/04: FRAC WITH 10000G DELTA FRAC 140 R (11)

& 16000# 12/20 SAND. FRAC DOWN TUBING @

10 BPM AVG INJ PRESS 450 PSI. ISIP 230 15 MIN 115 PSI.

12/21/04: SWAB TEST 89 BOPD / 288 BWPD WITH 200' OF GAS AHEAD OF SWAB.

DID NOT PULL FLUID BELOW 2200' FROM SURFACE.

08/14/14: (Sentry Lanzhou) 114-143-64 4/2007 stroke 64-53-41  
Arrow C-66 SN 88973 30" unit sheave?

DST #2: 3943-3994' LANSING B, p' 1096 psig

30-60-60-120. IHP1985 PSIG, IF STRONG BLOW, GTS 3 MINUTES, 30%in2,blu 855,sg0.782

298-275 PSIG, RATE 300 MCFPD ON 1/2 CHOKE TO 584 MCFPD ON 3/4

CHOKE. ISIP 275-1090 PSIG. FF 209 - 233 PSIG FLOW INCREASING FROM

615 TO 647 MCFPD. FLOW STABILIZED DURING THE LAST 40 MINUTES

FLOW PERIOD. FSIP 233 - 1087 PSIG. FHP 1945 PSIG. TIME 279 MINUTES.

RECOVERY: 134 FEET OF GCM, CHLORIDES 7000PPM. NO OIL

LANSING D

12/4/04 SWAB DRY,NS; 3000G 15% FE BDP 1738 PSI, BROKE TO 501 PSI.

BALLED OFF TO 819 PSI.

ISIP 590, 15 MIN 228 PSI. AFTER ACID. SWAB TEST. < 5 BOPD + 5G.

12/6/04 70%N2 + 2000G 20%ACID FRAC; @ 10BPM, 2964-2350 PSI. ISIP 1700

5 MIN 1500 PSI.

SWAB TEST 26 BOPD NO WATER WITH 1500' OF GAS AHEAD OF SWAB.

8/19/05: FRAC 11416 G DELTA FRAC 140 & 14600# 10/20 SAND

LANSING B

10/05/05: LANSING B TEST NATURAL 225 MCFPD SITP 782 PSI.

11/1/05: FRAC WITH MY-T-OIL-V 11,760G DIESEL AND 10,000# 12/20 SAND

SCREENED OUT WITH 587# SAND IN FORMATION.

11/9/05: SITP 956, 4 POINT TEST P' 1090 PSI SG 0.782 BTU 855 WET 29.7% N2

12/9/05: FIRST SALES

12/17/05: 24 HOUR FLOW TEST 464MCF @ 780 PSI ON 10.5/64 CHOKE.

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4/7/06: HALIB FRAC WITH 15737 G MY-T-OIL V & 19238# 20/40

BDP 1802 AIP 1029, MIR 12.7 BPM, AIR 11.5 BPM, ISIP 538 15 MIN 445 PSI

4/13/06: SWABBING AT 30 BSWPD.

4/6/10: Reperf GW 2752-64,58-78', 4/ft acidize with 1500g 15% NEFE

commingle with Lansing B POP

10/13/10: C/o pump for 2 1/2x1 1/4x16" insert.

10/6/11: Repair pump.

4/8/10: SITP 0 psi, IFL 1500'. Swab 10bws NS. Run 23/8" 6' MA, SN, and 125 jts 27/8" tbg

Plus 8' Sub. SN @ 3954, BMA @ 3960'. 21/2x2x18" RWBC insert pump w/Madden Valve

and 3' gas anchor, 6-11/2" sinker bars, 91 3/4" rods/c/o 57 3/4" boxes, 60 7/8 rods,

11/4x22" PR, 11/2x12" PRL, space out load tbg with 23bws, test pump to 300 psi. POP

10/13/10 Run 2 1/2x1 1/4x 16" RWBC insert pump 3" plungerw/Madden Valve and 3' gas anchor.

10/6/11: Hot oiled casing and tbg. Shopped pump. Replaced w/spare from Redman stock in Elkheart, KS. RIH w/same rod string.

8/18/14: Unseat pump and pump 35 bbls hot lease oil down tbg.

RIH: 2-1/2" x 1-1/4" x 10' 40PA ring pump, DV, 81" Stk., 6- 1-1/4" SB, 87- 3/4" rods,

61- 7/8" rods, 2-- 7/8" x 2' subs, 1-- 7/8" x 6' sub, 24' PR. Space out and POP. RDMO

5/5/2015 - Change pump, 60 7/8" and 91 3/4", change to 1 1/4" pump

SURFACE

API Number: 05-009-06627-00

Spud Date: 10/14/2004

Sales Date: ,2/23/2005 GW/LANSB  
12/9/2005 LANS B

Surface Casing

8 5/8 " 24# NEW LS

SET AT 1861 FEET

CEMENTED WITH 650 SACKS MIDCON 11

2% CCL + 1/2#FLOCELE

TAIL IN WITH 200 SACKS PREM PLUS.

2% CCL + 1/4# FLOCELE

NOTE: CIRC 225 SACKS TO SURFACE. GOOD RETURNS  
HOLE MUST BE IN GUAGE.

TOC 2ND STAGE 2210 FEET

4/06/10: Reperf, 4/ft, acidize with 1500g 15% nefe balled off and pop

2754-64 4/FT

GRANITE WASH

SQUEEZED swabbed dry after sqz.

2768-78 4/FT

2/23/2005

8/15/05

to 8/15/05

150 SKS H

cumm 1845 bo

2%CCL

Last prod. 10bopd/75 bwpd 35 psi on csg.

DV TOOL AT 3082 FEET

SCATTERED CMT TO 3252 FEET

PRIMARY CEMENTJOB: BROKE SOMETHING DOWN BELOW 4060'. ANNULUS WAS EMPTY  
ABOVE THAT POINT. THIS WAS EVIDENT WITH THE LIFT WE GOT ON THE SQUEEZE JOB  
AT 4030 FEET, CEMENT WAS CARRIED TO 3252'.

perfs 3911-13 sqz

9/27/2005

42sk out

Lansing B

3940-3946 4/ft

36628

perfs 3978-80 sq

9/20/2005

100sk

pbtD 3975'

CIBP 4020'

SQZD W/ 150 SACKS

4064-70 4/FT

LANSING "D"

4074-82 4/FT

38325

Emulsion developed from commingling with GW  
very little recovery from D.

Production Casing

5 1/2 " 17# NEW LS LTC, 8RD,(IPSCO/MAVERICK)

SET AT 4098 KB FEET. DV TOOL AT 3082' KB

HOWCO CEMENTED 10 BBL MF+ 5BBL FW

1ST STAGE:145 SACKS PREM 0.6% HALID 322, 5% KCL

2ND STAGE:165 SACKS: DITTO

TD 4100 FEI

# Investment Equipment Well bore Schematic - After P&A

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