

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Ave., Artesia, NM 88210
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1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
June 23, 2006

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30 - 039 - 20549
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No. RCVD FEB 1 '08
7. Lease Name or Unit Agreement Name Old Rock Com. OIL CONS. DIV.
8. Well Number #2
9. OGRID Number 225774 DIST. 3
10. Pool name or Wildcat Basin Dakota

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
KB 6410' GL 6397'

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: Abandon Lower Dakota Perfs. 6684' to 6774'.
Re-Perforate & Re-Stimulate Upper Dakota ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Report of Subsequent Operations:

10/16/2007: MIRU A-Plus Rig #6. BD Well. ND Wellhead. NU BOPE. PU 4 Jts. & Tag Btm. @ 6793'. POOH SLM.

10/17/2007: RIH Bit & Scraper to 6789'. POOH. RU Blue Jet. Run MTT-Caliper Log from 6730' to Surface. Casing above Producing Perfs. in good shape. Attempt to run CBL. Too Gassy. RD Blue Jet. PU RBP & RIH w/ Tbg. & Set @ 6667'.

10/18/2007: RU & Swab well down to 6200' & swab line Un-Stranded in Lubricator. IFL @ 5500'. FFL @ 6200'.

10/19/2007: Cut & Splice Sand-Line. Re-Spool Line. Check FL @ 6365'. No Influx ON. LD Swab Tools. RIH & Release RBP. PUH & Re-Set RBP @ 6482'. Load well w/ 5% KCl Water. Dump 2 sx. Sand on RBP. POOH.

10/20/2007: RU Blue Jet. Run Sector CBL. 1st Stage Cement: 5585'-TD. 2nd Stage Cement: 3980' - 4985': DV @ 4981'-4983'. 3rd Stage Cement: 1780' - 2348': DV @ 2346'-2348'.

CONTINUED: Attachment:

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE R. A. Schwering TITLE Operations Manager DATE 01/25/2007
Type or print name R. A. Schwering, PE E-mail address: ras.rdt@mindspring.com Telephone No.: (303) 716-3200
For State Use Only

APPROVED BY: H. Villanueva TITLE Deputy Oil & Gas Inspector,
Conditions of Approval (if any): District #3 DATE FEB 04 2008

10/22/2007: LD & MO 210 Jts. Used 2-3/8" Tubing.

10/23/2007: RU Schlumberger w/ Cased Hole Dynamics Tester Drilling 1/4" Holes in Casing Between WL Packers:

Drill Hole @ 5683'. BHP @ 806#. Plug Hole w/ Rivet. Test Plug @ 2873# Hi-Pressure & 481# Lo-Pressure. OK.
Drill Hole @ 5677'. BHP @ 789#. Plug Hole w/ Rivet. Test Plug @ 566# Hi-Pressure & 477# Lo-Pressure. OK.
Drill Hole @ 5759.5'. BHP @ 1002#. Plug Hole w/ Rivet. Test Plug @ 2370# Hi-Pressure & 530# Lo-Pressure. OK.
Attempt to Drill Hole @ 5899'. No Penetration: Dull Bit. Set Rivet. Test Plug @ 1500# Hi-Press. & 445# Lo-Press. OK.
Drill Hole @ 5898.5'. BHP @ 1096#. Plug Hole w/ Rivet. Test Plug @ 841# Hi-Pressure & 445# Lo-Pressure. OK.
Drill Hole @ 6449.5'. BHP @ 2035#. Plug Hole w/ Rivet. Test Plug @ 2706# Hi-Pressure & 1310# Lo-Pressure. OK.
Drill Hole @ 4557'. BHP @ No Test. Plug Hole w/ Rivet. Test Plug @ 1870# Hi-Pressure & 1061# Lo-Pressure. OK.
Drill Hole @ 2231'. BHP @ 158#. Plug Hole w/ Rivet. Test Casing @ 800# Hi-Pressure. OK.
RD Schlumberger.

10/24/2007: RIH w/ Magnet. Recover Metal Fines & Pieces. PU & Tally In Hole w/ 2-3/8" 4.7# L-80 Tubing to 6469'. Circ. Sand Off Plug. RU Swab & Swab 69 BW to Tank. LD Swab Tools. Release RBP on Sli. Vacuum. POOH & LD RBP.

ABANDON PERFS. 6734' - 6774' BELOW CIBP @ 6729': EVALUATE UPPER DAKOTA PERFS.: 6510' - 6724':

10/26/2007: RU A-Plus WL Unit. Set CIBP @ 6729.5' to 6731'. Abandon Burro Canyon Perfs. 6734' - 6774'. RIH Tbg w/ SN & NC. SN @ 6719'. RU Swab. Swab 18 Runs w/ IFL @ 5450'. FFFL @ 6100'. Recover 38 BLW.

10/27-28/2007: Attempt to Run Compressor & produce well. Recover 5 BLW. Would not stay on-line.

10/29/2007: Swab to Tank w/ Compressor On-Line. IFL @ 6300'. FFL @ 6400'. Recover 22 BLW Would not stay on-line.

ABANDON PERFS. 6718' - 6724' BELOW CIBP @ 6715': RE-PERFORATE & ACIDIZE DAKOTA FM.: 6704' - 6712':

10/30/2007: Swab to Tank w/ Compressor On-Line. IFL @ 5500'. Sell Down well till Dead. RD Swab. BD Casing & Tubing. POOH. RU Blue Jet. RIH & Set CIBP @ 6715'. Perforate Dakota Fm. @ 6704'-6712': 4 SPF @ 120 Deg Phasing: 32 Holes. RD Blue Jet. Blow after Shots. RIH Tbg. To SN @ 6687'. RU Swab. IFL @ 6300'. FFL @ 6300'. Recover 19.5 BLW for Day. 6.5 BLW Load Remain.

10/31/2007: Swab 2 Runs to Tank after well Died. FL @ 6550' & Scattered. POOH. PU Packer & RIH & set same @ 6888'. RU PACE Acidizers. Matrix Acidize Perfs.: 6704' - 6712' w/ 455 Gal. NEFE 5% HCl containing 55 Gal. Methanol + 4 Gal. Citric Acid + 2 Gal Inhibitor + 2 Gal. Surfactant + 2 Gal. Liquid KCl Substitute. Displace w/ 24 Bbl. 5% KCl Water. Used Charge Pump @ 2-3 BPM on Vacuum. RD PACE. Release Packer & POOH Tubing & LD Packer. RIH Tbg & SN & NC to 6888'. RU Swab & Swab 4 Runs to Tank. Recover 16 BLW. Net Load @ 25.5 BLW.

11/1/2007: Swab & Flow to Tank w/ Compressor. Well kept dying. Recover 28 BW. Now 3 BPW.

11/2-4/2007: Run Compressor w/ Soap Sticks. Well kept dying & would not dry up. Recover 7 BW (Total 10 BPW).

**ABANDON PERFS. 6684' - 6712' BELOW COMPOSITE BP @ 6669':
RE-PERFORATE + ACIDIZE + RE-FRAC DAKOTA FROM 6510' - 6650':**

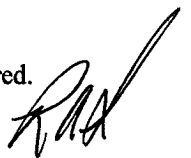
11/5/2007: BD Casing & Tubing. POOH Tubing. RU Blue Jet. RIH w/ Weatherford Composite Plug & Set @ 6669' - 6671'. Dump-Bail 2 sx. Cement on Composite Plug to Est. PBD @ 6653'. Re-Perforate Dakota Fm. 6639' - 6649': 2 SPF @ 120 deg. Phasing: 21 Holes. Orig. @ 6640' - 6650': 10 Holes. Perforate Dakota Fm. 6632' - 6636': 2 SPF @ 120 deg. Phasing: 9 Holes. Re-Perforate Dakota Fm. 6601' - 6611': 2 SPF @ 120 deg. Phasing: 21 Holes. Orig. @ 6602' - 6614': 18 Holes. RD Blue Jet.

RE-PERFORATE + ACIDIZE + RE-FRAC DAKOTA FROM 6510' - 6650': Continued:

- 11/6/2007: RIH w/ Weatherford HD Packer & Set Tool @ 6552' (Below Holes @ 6510' - 6516': 4 Holes). Swab & Recover 7.5 BPW. Swab Dry. RU Weatherford Acidizers. Acidize Perfs. w/ 850 Gal. 7.5% HCl in 4% KCl Base Fluid Containing 4 Gallons WIC-64L Iron Control + 1 Gallon WNE—348LN Non-Emulsifier + 2 Gallons WAI-251LC Corrosion Inhibitor w/ 80: 5/8" RCN Bio-Ball Sealers. Displace w/ 33.2 BW 5% KCl @ 7 BPM @ 2650# - 2950# TP w/ Light Ball Action. ISIP @ 1822#. RD Acidizers. Total Acid Load @ 56.5 Bbl. Release Packer. RIH 3 Jts. & Tag Plug @ 6669'. PU to SN @ 6587'. RU Swab. Swab to Tank & Recover 33 BW. 23.5 BW Acid Load Remains. IFL @ 5200'. FFL @ 6100'.
- 11/7/2007: Swab to Tank. IFL @ 5700'. FFL @ 6400'. Recover 13 BLW. 10.5 BLW Remain. POOH & LD Packer.
- 11/8/2007: BD Well. RU Wilson's Service. PU Weatherford Arrowset 10k# Treating Packer. Hydro-Test in Hole. Test Tubing & Connections to 9000#. Set Packer @ 6356'. Slack-Off 30k#. Install Stinger Frac Tree. Load Casing Annulus w/ 111.5 BW 5% KCl.
- 11/9/2007: RU Weatherford Fracturing Services. Sand Frac Dakota Perfs. (6501' - 6550': OA: 82 Holes) as follows: 98,660# of 20/40 Mesh Ottawa Sand in 1,350 Bbl. 5% KCl Water Base Fluid containing 283.6 Gal. WGA-111 Gellant + 50.1 Gal. WXL-105 Cross-Linker + 30 Gal. WXL-101 Cross-Linker + 50 Gal. WNE-342 Non-Emulsifier + 56.5# WPB-584 Breaker + 4 Gal. Bio-Clear Biocide: AIR @ 15.55 BPM (15.4 - 15.6 BPM). ATP @ 6400# (5865# - 7420#). ISIP @ 2359#. 15 Min @ 1543#. RD Weatherford. RU Flowback & Flow Dead in 45 Min. RD Stinger. Flow till Dead. SION.
- 11/10/2007: RU Wilson. Tag Fill @ 6640'. Release Packer. POOH & LD Packer. RIH & Tag Sand Fill @ 6610'. Land Tbg. Btm @ 6557'. SN @ 6523'. RDMO A-Plus Rig #6. Init. Load @ 1489 BLW.
- 11/11/2007: MIRU Jimmy's Swabbing Service Rig #60. Swab 22 Runs. Recover 52 BLW. IFL @ 2600'. FFL @ 4600'.
- 11/12/2007: Swab to Tank. IFL @ 4100'. FFL @ 6475'. Tubing Sanding-Up Inside. Recover 50 BLW.
- 11/13/2007: Swab to Tank. IFL @ 4800'. FFL @ 6450'. Tubing Sanding-Up Again. Recover 15 BLW. RDMO Jimmy's. Load Remaining @ 1372 BLW.
- 11/14/2007: MIRU A-Plus Rig #6: BD Tbg & Csg. ND Tree. NU BOPE. PU Tbg & Tag Fill @ 6587'. RU Swab & IFL @ 4800'. POOH Tbg. RIH w/ Bulldog Bailer & Clean-Out to 6620'. Lost 20' Hole on Connection. POOH 72 Stands.
- 11/15/2007: Fin. POOH. Packer Rubber fouled Sand-Pump. RIH Tbg. Assy. f/ N2 Clean-Out. RU Weatherford N2 Unit. Clean-Out f/ 6600' to 6656' w/ 272 MSCF N2. Still making sand @ SD. POOH to String Float & C/O Sand in Casinghead Bowl. RIH & Tag Sand-Fill @ 6644'. ND BOPE & NU Tree & Land Tubing w/ Btm @ 6590.42' & SN @ 6555.56'. RU Swab. Check FL @ 6000'. LD Swab Tools. Net Recover 25 BLW.

SWAB & CIRCULATE WELL WITH COMPRESSION TO RESUME PRODUCTION:

- 11/19/2007: RU Swab. Swab to Tank. Recover 9 BLW. RD Swab. RD & MO A-Plus Rig #6. Move Jimmy's Swabbing Service Rig #60 to Location.
- 11/20/2007: RU Swab Unit. Swab to Tank. IFL @ 5000'. FFL @ 5900'. Recover 42 BLW.
- 11/21/2007: Swab to Tank. IFL @ 5500'. FFL @ 6100'. Recover 32 BLW. Flowing Intermittently.
- 11/23-24/2007: Swab to Tank w/ Compressor. IFL @ 5300'. FFL @ 6100'. Recover 17 BLW. Well-On-Line w/ Compressor @ 15:30 Hours on 11/23/2007. Recover 11.5 BLW & Sold 7 MCFG.
- 11/25-26/2007: Well Down on Thanksgiving Day. Circ. w/ Compressor & Swab to Tank. IFL @ 5870'. FFL @ Scattered. Recover 20.5 BLW.



SWAB & CIRCULATE WELL WITH COMPRESSION TO RESUME PRODUCTION: Continued:

11/26-27/2007: Circ. w/ Compressor & Swab to Tank. IFL @ Scattered & FFL @ Scattered. Recover 29 BLW.

11/28/2007: Circ. w/ Compressor & Swab to Tank. IFL @ 5600'. FFL @ Scattered. Install Soap Injection System.
Recover 11.5 BLW. Well On-Line in PM.

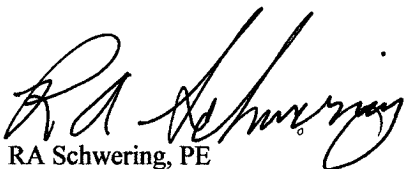
11/29/2007: RDMO Jimmy's Swabbing Service Rig #60. Location Frozen Solid. Compressor On-Line @ 15:30 Hrs.
Recover 11.5 BLW.

11/30/2007: Finish Winterize Compressor & Well Facilities. Resume Circ. Well w/ Compressor to Recover Fluid.
Recover 23.5 BLW. Load Remaining @ EO November @ 1,179.50 BLW.

12/7/2007: RU Phoenix Services. Tag Sand Fill @ 6623'. Install Bumper Spring in SN. RD Phoenix Services.

DECEMBER PRODUCTION:

SOLD 272 MCFG. No Oil Production to Date. Recovered 165 BLW: Load Remaining @ 1,014.5 BLW.
Well Is Improving on Plunger Lift w/ Compression.



RA Schwering, PE
Operations Manager: NM
Resource Development Technology, LLC

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NM Cell: (505) 947-3072

Attachment: Wellbore Diagram: 2007 Work & Installations Highlighted.

Wellbore Diagram

Old Rock Com. #2

12 1/4" Hole
Lost Circ. @ 50'

Cement: Circ. to Surf.
175 sx. Class B + 2% CaCl₂
T.O. @ 235'

3rd Stage Cement:
CBL TOC @ 1780'
50/50 Pozmix 'C' + 2% Gel
Est 100 sx.

UV Tool @ 2346'

8 3/4" Hole

2nd stage Cement:
CBL TOC @ 3980'
50/50 Pozmix 'C' + 2% Gel
Est 120 sx

Squeeze Cement Perfs:
4438' - 4756'
w/ 150 sx. Class H Cmt

UV Tool @ 4981'

1st Stage Cement:
CBL TOC @ 5585'
50/50 Pozmix 'H' + 2% Gel
Est 280 sx

TOC @ 6656' : PPA
Composite BR @ 6669' - 6671'
C1 BR @ 6715' - 6717.5'
C1 BR @ 6729.5' - 6731'
Last Fil. @ 6789'
Drilled-Out Casing to 6800'

5 1/2" 15.2# J-55 LTC/STC
Co2 @ 6820' T.O. @ 6822'

Surveys: 1/2" @ 235' 3/4" @ 3325'
1/4" @ 744' 1/2" @ 3875'
1/2" @ 1246' 1/4" @ 4379'
3/4" @ 1651' 1/4" @ 4934'
2" @ 1902' 3/4" @ 5481'
1 1/2" @ 2434' 1 1/4" @ 5840'
1 1/4" @ 284' 3/4" @ 6223'
1/2" @ 6586'

Top Detail:
K.O. = 10.00'
197 ft: 2 3/8" 4" L-80: 6545.36'
S.N. = 1.10'
1st: Same = 33.41'
N.C. = 0.35'

BTM @ 6570.42' SAC @ 6555.56'

Treat MV Perfs in 1972:
80 ea. Set of Perfs w/ 500 Gal. HCl
Frac w/ 5000# 20/40 Mesh Sand w/
1,133 Bbl.

Abandoned MV Perfs:
4438' - 4454': 1502F: 10 Holes
4464' - 4474': 1502F: 7 Holes
4486' - 4494': 1503F: 4 Holes
4511' + 4514' + 4518' + 4521' + 4546' + 4550' + 4590' + 4594'
4603' + 4606' + 4624' + 4640' + 4644': 13 Holes
4730' - 4737': 1502F: 4 Holes
4753' + 4756': 2 Holes

Squeeze Cement MV Perfs. w/ 150 sx.
in 1972

Treatment History:
2007: Acid Breakdown Perfs: 6601' - 6650': OA:
850 Gallons 7 1/2% HCl + 80 Gall Sealers:
2007: Frac Perfs: 6510' - 6650': OA: 87 Holes
98,660# 20/40 Mesh Sand: 1-5 PPG +
1,350 Bbl. 20# Weathered X-Link Gel

2007: Matrix Acid: 6704' - 6712': OA:
455 Gal. NEFE 5% HCl Acid + 55 Gal. Methanol

1972: Breakdown Perf Set Individually w/ 150 Gal. 10% HCl
1972: Frac Perfs: 6510' - 6774': OA: 76 Holes
70,000# 20/40 Mesh Sand 0.2 - 1.0 PPG +
2,719 Bbl. 0.2% KCl Gelled Water

Perfs.: 6510' - 6516': 1602F: 4 Holes: 1972
Perfs.: 6601' - 6611': 2502F: 21 Holes: 2007
6602' - 6614': 1502F: 18 Holes: 1972
Perfs.: 6632' - 6636': 2502F: 9 Holes: 2007
Perfs.: 6639' - 6649': 2502F: 21 Holes: 2007
6640' - 6650': 1502F: 10 Holes: 1972
Perfs.: 6684' - 6688': 1502F: 4 Holes: 1972
Perfs.: 6704' - 6712': 4502F: 32 Holes: 2007
Perfs.: 6718' - 6724': 1502F: 4 Holes: 1972
Perfs.: 6734' - 6774': 1502F: 26 Holes: 1972