

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6164
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-45-26749
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator Dugan Production Corporation c/o San Juan Coal Company		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 561 Waterflow, NM 87421		7. Lease Name or Unit Agreement Name Barcelona
4. Well Location Unit Letter <u>F</u> : <u>1850</u> feet from the <u>North</u> line and <u>1850</u> feet from the <u>West</u> line Section <u>23</u> Township <u>30N</u> Range <u>15W</u> NMPM San Juan County		8. Well Number <u>1</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5265' GL		9. OGRID Number <u>6515</u>
		10. Pool name or Wildcat Wildcat PC (Pictured Cliffs)

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 ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☒
OTHER: Re-P&A ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

RCVD AUG 22 '13
OIL CONS. DIV.
DIST. 3

Re-P&A to make well mineable for San Juan Mine per MSHA requirements. Detailed process and specification attached.

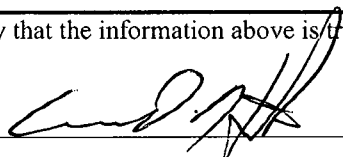
Notify NMOCD 24 hrs
prior to beginning
operations

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE



TITLE

Mine Geologist

DATE

8/22/13

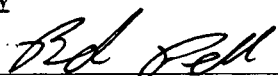
Type or print name Eric D. Herth

E-mail address: eric.d.herth@bhpbilliton.com PHONE: 505.598.2105

For State Use Only

Deputy Oil & Gas Inspector,
District #3

APPROVED BY:



TITLE

DATE

8/23/13

Conditions of Approval (if any):

Ar

Mote Drilling Company Inc

P.O. Box 2773
Farmington, New Mexico 87499
505-325-1666

PLUG AND ABANDONMENT PROCEDURE

March 13, 2013

Barcelona #1

Page 1 of 2

Twin Mounds / Basin Fruitland Pictured Cliffs
1850' FNL and 1850' FWL, Section 23, T30N, R15W
San Juan County, New Mexico / API 30-045-26749

Materials: All cement volumes are planned for 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be water or drilling mud with sufficient weight to balance all exposed formation pressures. Cement will be Class B mixed at 15.6 ppg with 1.18 cf/sxs yield. For expanding cement as required by MSHA Proposed Decision and Order M-2000-106-C the aforementioned cement will be mixed with 2 grams of 30 micron aluminum powder per Class B sack. The addition of the aluminum must occur just prior to down hole placement (15 minutes or less). Pour density and strength losses are expected to be negligible. For expanding plugs wait on concrete time (WOC) will be a minimum of 12 hours.

CASING REMOVAL AND PLUGGING PROCEDURE:

1. This project requires a Closed-Loop System for the use of a Mo-Te steel tank to handle waste fluids circulated from the well and cement wash up.
2. Comply with all applicable MSHA, NMOCD, BLM and San Juan Mine safety regulations. Move on location (MOL) and conduct safety meeting for all personnel on location.
3. Complete a hot work permit. Test the inside of the p&a marker for methane by hot tapping the marker pipe approximately 12" above ground level. Then dig out and remove the p&a marker with a backhoe. Weld a casing extension onto the 7" casing and install a BOP.
4. Install relief line to the waste pit; kill the well with water as necessary. Nipple down the wellhead (ND WH) and nipple up the blowout preventer (NU BOP) on the tubing head. Function test operation and then pressure test the BOP to 1000 PSI.
5. Rig up drilling system with a steel mud pit, and mud pump. Rig up 3.75" core bit and a 3.75" core pipe with the top drive rig. Drill out 2 7/8" casing from surface to TD (660', core over casing and joints). Circulate clean water to washout all cuttings from outside of casing column.
6. TOH core pipe and bit. Use elevator and slips to remove and cut 2 7/8" casing from hole.
7. Test TD for 660' after removing the inner cemented casing. If debris from surface casing or annulus has impacted TD install 5.5" bit and re-establish TD to 660'.

PLUG AND ABANDONMENT PROCEDURE

March 13, 2013

Barcelona #1

Page 2 of 2

Re-entry & Plugging Procedure Continued:

8. Rig up Jet West wireline and run a Gamma-Neutron log and a directional survey log. All reported depths should be from ground level (GL). Determine 8 seam (minable) coal interval depths from GL.
9. Plug #1 (660' to 100' above 8 seam top, estimated at 400'): After verifying the 8 seam interval plus 100 feet, connect the pump line to the bradenhead valve. Pressure test the BH annulus to 300#; note the fluid volume to load. Mix approximately 17 sxs cement. Tremie cement (with aluminum added) from 660' (re-established TD) to 8 seam top plus 100' (estimated at 400'). WOC (two hour minimum).
10. Plug #2 (100' above 8 seam top, estimated at 400', to Surface): Mix approximately 31 sxs cement. Tremie cement from 100' above 8 seam top (estimated at 400') to surface and cover the 8.625" surface casing shoe. Fill the bradenhead annulus and 7" casing with cement to surface. Shut in well and WOC.
11. ND BOP and cut off wellhead below surface. Install P&A marker with cement to comply with regulations for buried markers (MSHA and OCD). RD, MOL. Cut off anchors and clean up location.
12. Have location surveyed by third party surveyor. Turn in form A C102 with subsequent completions forms and report.

Well Name: Barcelona #1

API: 30-45-26749, San Juan County, NM

Location: 1850' FNL, 1850' FWL, Seciton 23, T30N, R15W

Formation: Fruitland Pictured Cliffs

Depiction: Current Status

Date: March 13, 2013

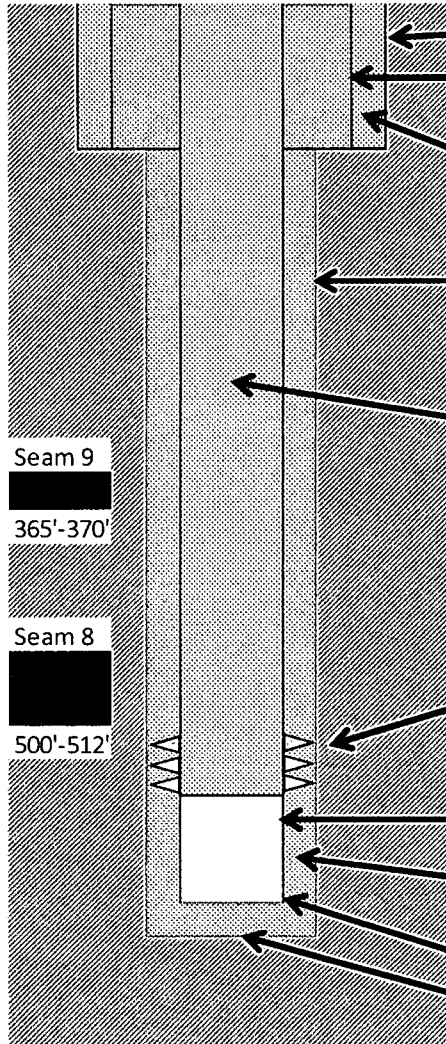
Spud Date: October 23, 1986

Completion Date: October 25, 1986

Elevation: 5265 ft GL

Depth (ft) HoleD (in) CaseD (in)

25	8.750	7.000
50	8.750	7.000
75	8.750	7.000
100	8.750	7.000
125	5.125	2.875
150	5.125	2.875
175	5.125	2.875
200	5.125	2.875
225	5.125	2.875
250	5.125	2.875
275	5.125	2.875
300	5.125	2.875
325	5.125	2.875
350	5.125	2.875
375	5.125	2.875
400	5.125	2.875
425	5.125	2.875
450	5.125	2.875
475	5.125	2.875
500	5.125	2.875
525	5.125	2.875
550	5.125	2.875
575	5.125	2.875
600	5.125	2.875
625	5.125	2.875
650	5.125	2.875

**Notes**

8 3/4" hole.
7", 23 lb/ft casing set
set to 98'.

Cemented w/ 41 sxs
circulated to surface.

5 1/8" hole.

Existing plug (1997)
from 597' - 0' pumped
35 cf of class G down
2 7/8" casing.

Picture Cliffs TOF
@ 515'.

Picture Cliffs
perforations from
543' to 547'.

2 7/8", 6.4 lb/ft casing
set @ 662' and
cemented with 70 sxs
circulated to surface.

PBD = 640'

TD = 660'

Well Name: Barcelona #1

API: 30-45-26749, San Juan County, NM

Location: 1850' FNL, 1850' FWL, Seciton 23, T30N, R15W

Formation: Fruitland Pictured Cliffs

Depiction: Steps 5, 6 and 7 - Core-over 2 7/8" casing, remove, and clean.

Date: March 13, 2013

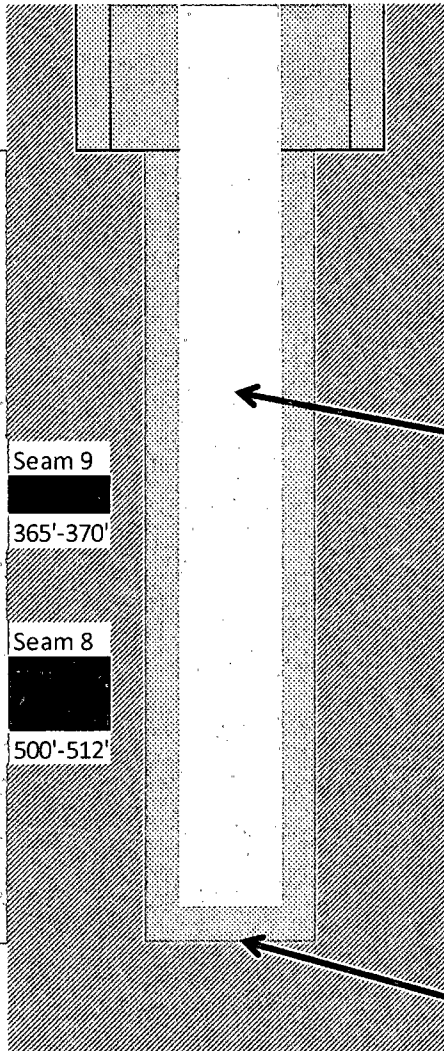
Spud Date: October 23, 1986

Completion Date: October 25, 1986

Elevation: 5265 ft GL

Depth (ft) HoleD (in) CaseD (in)

25	8.750	7.000
50	8.750	7.000
75	8.750	7.000
100	8.750	7.000
125	5.125	Remove
150	5.125	Remove
175	5.125	Remove
200	5.125	Remove
225	5.125	Remove
250	5.125	Remove
275	5.125	Remove
300	5.125	Remove
325	5.125	Remove
350	5.125	Remove
375	5.125	Remove
400	5.125	Remove
425	5.125	Remove
450	5.125	Remove
475	5.125	Remove
500	5.125	Remove
525	5.125	Remove
550	5.125	Remove
575	5.125	Remove
600	5.125	Remove
625	5.125	Remove
650	5.125	Remove



Notes

Step 5:
Core-over 2 7/8"
casing from surface
to 660'.

Step 6:
remove complete
2 7/8" casing string
and cement.

Step 7:
clean well to TD
using 5" bit as
needed.

Well Name: Barcelona #1

API: 30-45-26749, San Juan County, NM

Location: 1850' FNL, 1850' FWL, Seciton 23, T30N, R15W

Formation: Fruitland Pictured Cliffs

Depiction: Steps 8, 9, 10, and 11 - Log, place plugs, and place marker.

Date: March 13, 2013

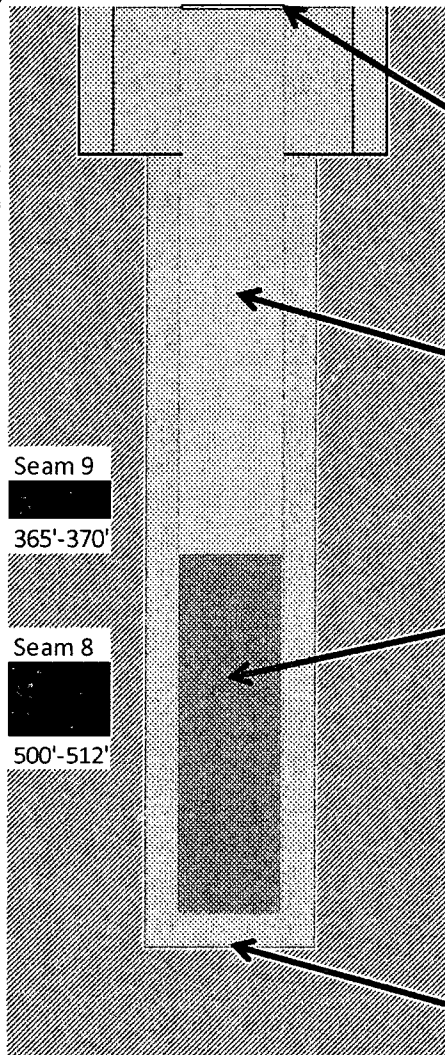
Spud Date: October 23, 1986

Completion Date: October 25, 1986

Elevation: 5265 ft GL

Depth (ft) HoleD (in) CaseD (in)

25	8.750	7.000
50	8.750	7.000
75	8.750	7.000
100	8.750	7.000
125	5.125	Removed
150	5.125	Removed
175	5.125	Removed
200	5.125	Removed
225	5.125	Removed
250	5.125	Removed
275	5.125	Removed
300	5.125	Removed
325	5.125	Removed
350	5.125	Removed
375	5.125	Removed
400	5.125	Removed
425	5.125	Removed
450	5.125	Removed
475	5.125	Removed
500	5.125	Removed
525	5.125	Removed
550	5.125	Removed
575	5.125	Removed
600	5.125	Removed
625	5.125	Removed
650	5.125	Removed



Notes

Step 11:
Install buried P&A
marker and RD and
MOL.

Step 10:
Install neat
concrete 100' above 8
seam top (~400') to
surface.

Step 9:
Install expansive
concrete 660' to
100' above 8 seam
top (~400').

Step 8:
Log well, strata and
deviation.

TD = 660'