

District I - (575) 393 6161  
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 3477  
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

WELL API NO  
30-059 20486

5 Indicate Type of Lease  
STATE Minerals and Surface

6 State Oil & Gas Lease No  
Expired

7 Lease Name or Unit Agreement Name  
Sofia

8 Well Number 2

9 OGRID Number  
257794

10 Pool name or Wildcat  
Wildcat CO2 - Never Hooked Up

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)

1 Type of Well Oil Well ☐ Gas Well ☐ Other CO2

2 Name of Operator  
Kodiak Petroleum (Montana) Inc

3 Address of Operator  
Cannot be Located, Well Declared Orphaned by Order R 14049 in Case 15323

4 Well Location  
Unit Letter K 2295 feet from the South line and 1488 feet from the West line  
Section 36 Township 26 North Range 29 East NMPM Union County

11 Elevation (Show whether DR RKB RT GR etc )  
6178 GL

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 ☐

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

Estimated Start Date June 14, 2017

Plug and Abandon

Plugs to cover Yeso Glorieta, and Santa Rosa Perforations 7-inch casing shoe, and surface plug  
See Attached Procedure and Diagrams

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

SIGNATURE William V Jones TITLE Supervisor District IV DATE 6/5/2017

Type or print name William V Jones E-mail address williamv.jones@state.nm.us PHONE 505 419-1995 Work Cell  
**For State Use Only**

APPROVED BY WVJ William V Jones TITLE Supervisor District IV DATE 6/5/2017  
Conditions of Approval (if any) See Attached Procedure

## PLUG & ABANDONMENT PROCEDURE

March 16, 2017

### Sofia #2

Wildcat

2295' FSL and 1488' FWL, Section 36, T-26-N, R-29-E

Union County, New Mexico, API 30-059-20486

Lat 36 407472 / Long -103 790405

Note All cement volumes use 100% excess outside pipe and 50' excess inside The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield

- 1 This project will use a closed loop system to handle waste fluids circulated and cement wash up
- 2 Comply with all NMOC safety regulations MOL and RU daylight pulling unit Conduct safety meeting for all personnel on location Record casing, tubing and bradenhead pressures NU relief line and blow down well Kill well with water as necessary ND wellhead and NU BOP Function test BOP
- 3 Prepare a 2 3/4" tubing workstring and round a string mill to 11620' or as deep as possible TIH and set a 4 5" cement retainer at 1590' Attempt to load the casing with water and circulate the well clean, note the open perforations from 1076' to 1124' may cause plug #1 to be unbalanced
- 4 **Plug #1 (Yeso and Glorietta perforations and San Andres top, 1874' to 1512')** Mix and pump 60 sxs Class B cement, squeeze 50 sxs below the CR and leave 10 sxs above the CR inside the casing to isolate and cover the Yeso and Glorietta perforations PUH and WOC, TIH and tag TOC, re-set plug if necessary PUH with tubing
- 5 **Plug #2 (Santa Rosa perforations and top, 1174' to 1026')** Attempt to load the casing with water and establish circulation to surface If unable to circulate, then set a CR at 1026' Mix 60 sxs cement and set a balanced plug, then squeeze 30 sxs outside the casing and leave 30 sxs inside to isolate the Santa Rosa perforations and top PUH and WOC TIH to tag TOC Pressure test the casing to 800 PSI If a CR was used and the casing tested OK above, then no WOC and tag
- 6 **Plug #3 (7" Casing shoe, Chinle and Exeter Sandstone tops, 646' to 450')** Perforate 3 HSC holes at 646' Establish a rate into the squeeze holes Set a 4 5" CR at 596' Mix and pump 39 sxs Class B cement, squeeze 20 sxs outside the casing and leave 19 sxs inside casing PUH to 100
- 7 **Plug #4 (Surface plug, 100' to Surface)** Attempt to pressure test the Braden head annulus to 300 PSI, note the volume to load If the BH annulus holds pressure, then establish circulation out casing valve with water Mix approximately 10 sxs cement and spot a balanced plug from 100' to surface, circulate good cement out casing valve LD tubing If BH does not test, then ND BOP and cut off WH RIH with tremie pipe into BH annulus to 100' Mix and pump 10 sxs from 100' to surface, circulate good cement returns POH with tremie pipe
- 8 ND BOP and cut off wellhead below surface casing flange Install P&A marker with cement to comply with regulations Record GPS coordinate for P&A marker on tower report Photograph P&A marker in place Cut off anchors and clean up location Restore location per ~~BOM~~ stipulations

SURFACE  
OWNER

**SOFIA #2**  
**Current Well**  
**Wildcat**

2295' FSL & 1488 FWL, Section 36, T-26-N, R-29-E, Union County, NM  
Lat 36 407472 / Long -103 790405 / API #30-059-20486

Spud 3/06/2008  
Today's Date 3/16/2017  
Elevation 6200 GR  
Completed 04/30/2008

Morrison @ 200

Exeter Sandstone @ 500  
Chinle @ 540

Santa Rosa Sandstone @ 1100

San Andres @ 1562

Glorietta Sandstone @ 1650'

Yeso @ 1772

Top Pump Down 100 sxs into BH  
annulus, 2008 CBL starts at 400 ,  
no cement till 650',

7" 20# J 55 Casing set @ 596'  
Cement with 240 sxs

Some bond from 665 down to 720 ,

Santa Rosa Perforations  
1076 - 1124

TOC @ 1570' (CBL, 2008)

Glorietta Perforations  
1640 - 1748'

Yeso Perforations  
1866' - 1874

4 5' 10 5# J 55 Casing set @ 1915  
Cement with 200 sxs  
TOC at 1570' from CBL

10' hole

6' hole

MD 1915  
PBTD 1900

# SOFIA #2

## Proposed P&A

### Wildcat

2295 FSL & 1488 FWL, Section 36, T-26-N, R-29-E, Union County, NM  
 Lat 36 407472 / Long -103 790405 / API #30-059-20486

Spud 3/06/2008  
 Today's Date 3/16/2017  
 Elevation 6200' GR  
 Completed 04/30/2008

Morrison @ 200

Exeter Sandstone @ 500  
 Chinle @ 540

Santa Rosa Sandstone @ 1100

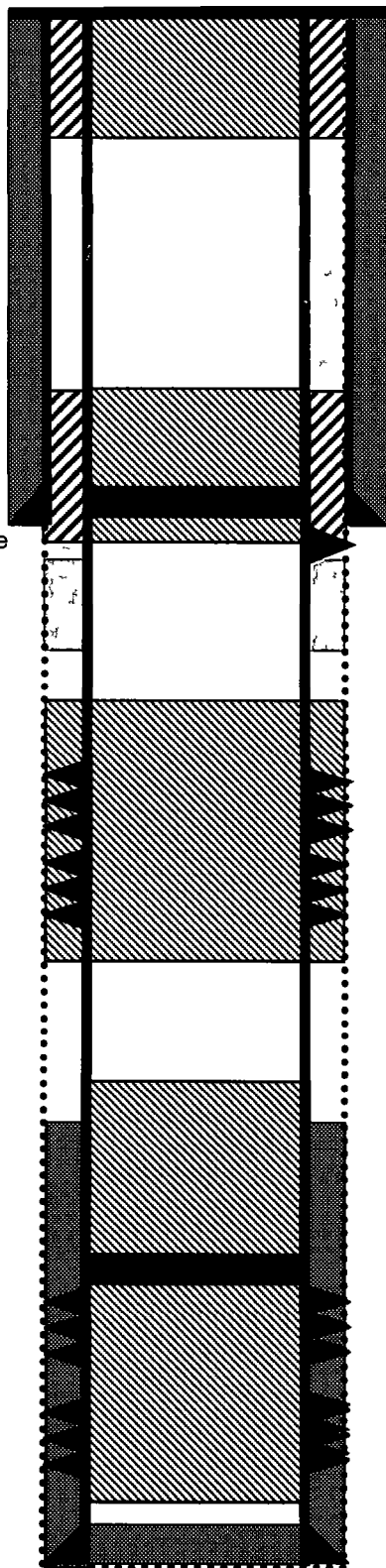
San Andres @ 1562

Glorietta Sandstone @ 1650'

Yeso @ 1772'

10' hole

6' hole



MD 1915  
 PBTB 1900

Top Pump Down 100 sxs into BH annulus  
 2008 CBL starts at 400 no cement till 665

**Plug #4 100 - 0**  
 Class B cement 10 sxs  
 Inside casing and 10 sx  
 outside with tremie pipe

**Plug #3 646 - 450'**  
 Class B cement, 39 sxs  
 20 sxs outside casing  
 and 19 sxs inside

7" 20# J 55 Casing set @ 596  
 Cement with 240 sxs

**Set CR @ 596'**  
**Perforate @ 646**

Some bond from 665 down to 720

**Maybe Set CR @ 1026**

**Santa Rosa Perforations**  
**1076 - 1124**

**Plug #2 1174 - 1026**  
 Class B cement 60 sxs,  
 30 sxs outside casing and  
 30 sxs inside

**TOC @ 1570' (CBL, 2008)**

**Set CR @ 1590**

**Plug #1 1874' - 1512**  
 Class B Cement 60 sxs  
 50 sxs under the CR  
 and 10 above

**Glorietta Perforations**  
**1640' - 1748'**

**Yeso Perforations**  
**1866' - 1874**

4 5 10 5# J 55 Casing set @ 1915  
 Cement with 200 sxs  
 TOC at 1570 from CBL

Wells Operators Operator Data OCD Review OCD Only Administration

## OCD Permitting

Home Land Searches Land Details

### Section 36-26N-29E

Type Normal

Total Acres 640

County Union (59)

SOFIA #2  
30-059-20486

D (D) State <sup>1</sup> State <sup>2</sup> (59) 40	C (C) State <sup>1</sup> State <sup>2</sup> (59) 40	B (B) State <sup>1</sup> State <sup>2</sup> (59) 40	A (A) State <sup>1</sup> State <sup>2</sup> (59) 40
E (E) State <sup>1</sup> State <sup>2</sup> (59) 40	F (F) State <sup>1</sup> State <sup>2</sup> (59) 40	G (G) State <sup>1</sup> State <sup>2</sup> (59) 40	H (H) State <sup>1</sup> State <sup>2</sup> (59) 40
L (L) State <sup>1</sup> State <sup>2</sup> (59) 40	K (K) State <sup>1</sup> State <sup>2</sup> (59) 40	J (J) State <sup>1</sup> State <sup>2</sup> (59) 40	I (I) State <sup>1</sup> State <sup>2</sup> (59) 40
M (M) State <sup>1</sup> State <sup>2</sup> (59) 40	N (N) State <sup>1</sup> State <sup>2</sup> (59) 40	O (O) State <sup>1</sup> State <sup>2</sup> (59) 40	P (P) State <sup>1</sup> State <sup>2</sup> (59) 40

Note<sup>1</sup> = Surface Owner Rights

Note<sup>2</sup> = Sub-Surface Mineral Rights

#### Land Restrictions

No land restrictions found for this section

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