

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

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.*

**SUBMIT IN TRIPLICATE – Other instructions on reverse side**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. <b>SF - 078138-A</b>
2. Name of Operator <b>BP America Production Company Attn: Cherry Hlava</b>		6. If Indian, Allottee or tribe Name
3a. Address <b>P.O. Box 3092 Houston, TX 77253</b>	3b. Phone No. (include area code) <b>281-366-4081</b>	7. Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>800' FSL &amp; 1800' FEL Sec 11 T30N R11W</b>		8. Well Name and No. <b>Storey B LS 5</b>
		9. API Well No. <b>30-045-09601</b>
		10. Field and Pool, or Exploratory Area <b>Basin Fruitland Coal</b>
		11. County or Parish, State <b>San Juan County, New Mexico</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 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 type="checkbox"/> Abandon
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Water Disposal	
	<input type="checkbox"/> Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Other	<b>Downhole Commingling</b>

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 recompleat 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 recompleat 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.

**BP America Production Company requests permission to recompleat the subject well into the Basin Fruitland Coal and commingle production Downhole with the existing Pictured Cliffs as per the attached procedure.**

**The Aztec Pictured Cliffs (71280) and Basin Fruitland Coal (71629) are Pre-Approved Pools for Downhole Commingling per NMOCD ord R-11363. The working and overriding royalty interest owners in the proposed commingled pools are identical, therefore no further notification of this application is required.**

**Production is proposed to be allocated based on the subtraction method using the projected future decline for production from the Pictured Cliffs. That production shall serve as a base for production subtracted from the total production for the commingled well. The balance for the production will be attributed to the Fruitland Coal and the future production decline estimates for the Pictured Cliffs.**

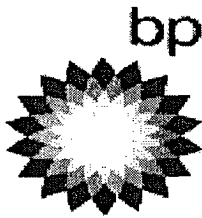
**Adhere to previously issued stipulations.**

**Commingling Production downhole in the subject well from the proposed pools will not reduce the value of the total remaining production.**

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

*DHC 1957 AZ*

14. I hereby certify that the foregoing is true and correct	
Name (Printed/typed) <b>Cherry Hlava</b>	Title <b>Regulatory Analyst</b>
Signature <i>Cherry Hlava</i>	Date <b>7/5/2005</b>
<b>THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>	
Approved by <i>Jim Lovel</i>	Title <b>Petr. Eng</b>
Date <b>7/21/05</b>	
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	



## SJ Basin Well Work Procedure

**Well Name:** Storey B LS #5

**Version:** 1.0 Version

**Date:** June 29, 2005

**Type III Fruitland Coal  
Recompletion Program**

**Repair Type:** Recompletion and Downhole Co-mingle of Pictured Cliffs and Fruitland Coal

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### History

The Storey B LS #5 is currently flowing only marginal gas less than 10 mcf/d against 169 psi line pressure.

This well was drilled and completed as a Pictured Cliffs well in 1959. The initial fracture treatment was 40,000# Sand with 37,086 gal water.

Cumulative production for the Pictured Cliffs is 995 MMCF.

### Procedure:

1. Check anchors. MIRU workover rig Key 66
2. Check and record tubing, casing, and bradenhead pressures.
3. Blow down well. Kill with 2% KCL water ONLY if necessary.
4. Nipple down Wellhead. NU BOPs and diversion spool with 3" outlets and 3" pipe to the blow tank. Pressure test BOPs to 200 psi above BHP. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover.
5. Pull tubing hanger and shut pipe rams for 2 3/8" tubing and install stripping rubber.
6. Tag for fill and tally OH with 2 3/8" production tubing currently set at 2319'. Plug back total depth is 2390' with perforations 2336'-2348'; 2352'-2366'; 2370'-2376' in Pictured Cliffs.
7. TOH with 2 3/8" production tubing using approved "Under Balance Well Control Tripping Procedure".

Contingency: *If the tubing is in poor condition, replace entire tubing string.*

8. Rig up Schlumberger and test lubricator 200 psi low and 1500 psi high.

9. Run Gamma Ray Depth Control log to tie in the top of the Pictured Cliff perforations and the Fruitland Coal Sand topped at 2090'.
10. Run Gage ring and junk basket for 5 ½" 15.5# J55 casing and then set RBP at 2330' RKB above the top of the Pictured Cliffs perforations.
11. Load hole with 2 % KCl water and test casing to 500 psi.
12. Run Coal Identification Log and Cement Bond Log.
13. ND existing wellhead and replace with FMC BP Amoco Standard 5 ½" x 2 3/8" Retro-fit wellhead as per attached diagram and material list.
14. Rig up Schlumberger and test lubricator 200 psi low and 1500 psi high
15. Run Cased Hole Dynamic Test Tool and measure pressures at seven (7) depths to be determined from Coal Identification Log. Estimated depths are 2315', 2310', 2195', 2170', 2135', 2120', and 2110'.

<b>Estimated Fruitland Coal Intervals</b>			
<b>NAME</b>	<b>TOP</b>	<b>BOTTOM</b>	<b>Approximate CHDT Depth</b>
<b>Fruitland Sand (IGNA)</b>	<b>2087'</b>	<b>2144'</b>	<b>2110', 2120', 2135'</b>
<b>CTWD</b>	<b>2160'</b>	<b>2200'</b>	<b>2170' and 2195'</b>
<b>CAHN</b>	<b>2300'</b>	<b>2320'</b>	<b>2310' and 2315'</b>

16. Prepare to perforate 2300'-2320' at 4 spf using 3 1/8" HSD loaded with PowerJet charges EH .45" and Penetration of 38.5".
17. Run 2 7/8" 6.5# N-80 Buttress fracture treatment string and set packer at 2250'
18. Install Stinger Tree Saver.
19. Fracture treat well for **Stage 1** with an estimated 100,000# 16/30 Brady Sand and 70% Q Foam at 45 BPM as per Schlumberger Detailed Fracture Treatment Proposal. Limit treating pressure to a maximum of 6000 psi.
20. Flow well back to recover as much load fluid as possible.
21. Unseat packer and POH
22. Set Retrievable Bridge Plug at 2250' and casing perforate as before at 2170'-2190' and 2100'-2110'.
23. Run 2 7/8" 6.5# N-80 Buttress fracture treatment string and set packer at 2000'
24. Install Stinger Tree Saver.
25. Fracture treat well for **Stage 2** with an estimated 200,000# 16/30 Brady Sand and 70% Q Foam at 45 BPM as per Schlumberger Detailed Fracture Treatment Proposal. Limit treating pressure to a maximum of 6000 psi.

26. Flow well back to recover as much load fluid as possible.
27. Unseat packer and POH
28. Recover RBP at 2250' and 2330'
29. Cleanout wellbore to PBTD and flow to clean up with 2 3/8".
30. Hang off tubing at 2370' with Nipples for plunger lift.
31. Release to production department and produce Pictured Cliff Zone and Fruitland Coal Zone down hole co-mingled with compression at 5 – 10 psi suction pressure.

***Richard W. Pomrenke***


*Petroleum Engineer Consultant*

*Type III Coal Recompletion Program*

*San Juan South*

*Onshore US Business Unit*

*19.113*

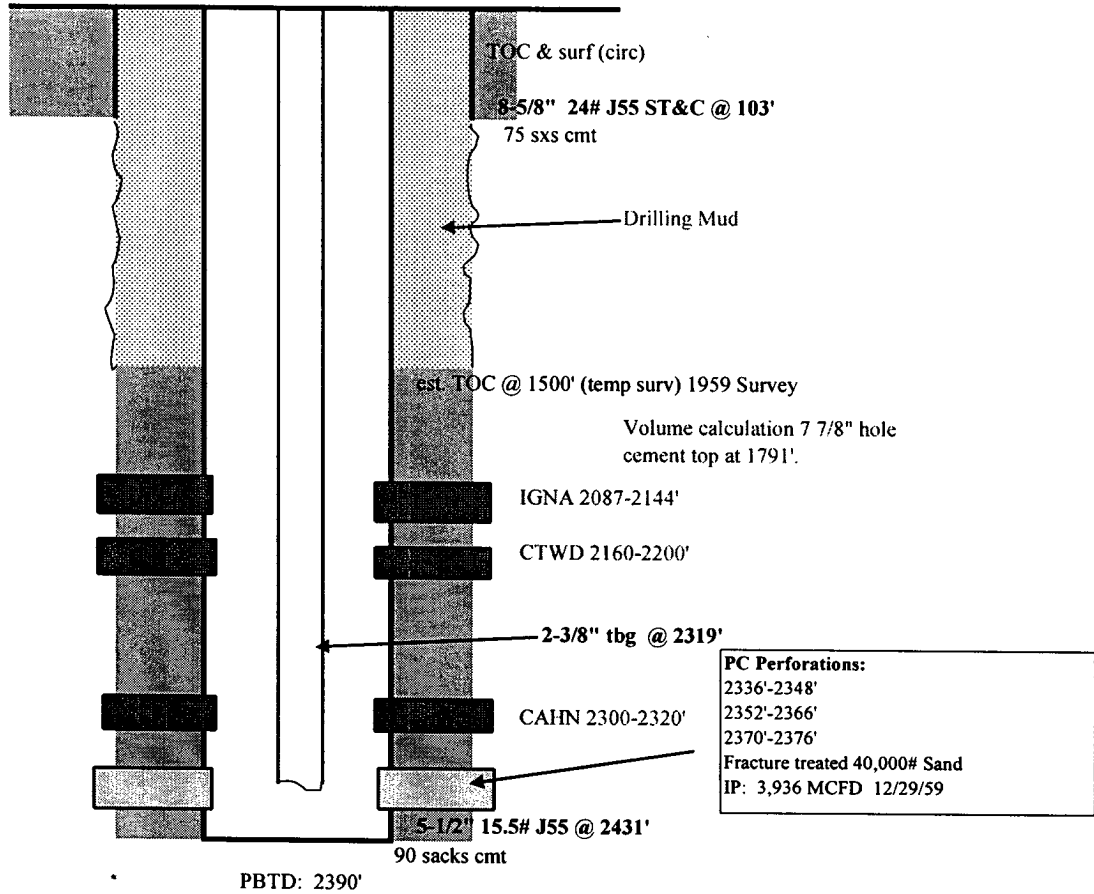
 **281-366-5023 office**

 **281 455 8449 cell**

 **pomrrw@bp.com**

Current Diagram 2-15-05  
**Storey B LS #5**  
 Sec 11, T30N, R11W  
 API: 30-045-09601

5862' GL



NOTES:

updated: 7/22/03 jad

**District I**  
1625 N. French Dr., Hobbs, NM 88240

**District II**  
811 South First, Artesia, NM 88210

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410

**District IV**  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

**OIL CONSERVATION DIVISION**  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-102  
Revised August 15, 2000

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number <b>30-045-09601</b>	<sup>2</sup> Pool Code <b>71629</b>	<sup>3</sup> Pool Name <b>Basin Fruitland Coal</b>
<sup>4</sup> Property Code <b>001136</b>	<sup>5</sup> Property Name <b>Storey B LS</b>	<sup>6</sup> Well Number <b>5</b>
<sup>7</sup> OGRID No. <b>000778</b>	<sup>8</sup> Operator Name <b>BP America Production Company</b>	<sup>9</sup> Elevation <b>5862</b>

<sup>10</sup> Surface Location

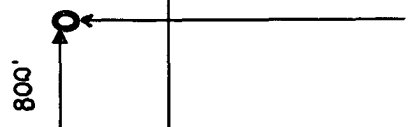
UL or lot no. <b>O</b>	Section <b>11</b>	Township <b>30N</b>	Range <b>11W</b>	Lot Idn	Feet from <b>800</b>	North/South <b>South</b>	Feet from <b>1800</b>	East/West <b>East</b>	County <b>San Juan</b>
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
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<sup>12</sup> Dedicated Acres <b>320</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

				<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  <b>Cherry Hlava</b> Signature <b>Cherry Hlava</b> Printed Name <b>Regulatory Analyst</b> Title <b>7/5/2005</b> Date
				<sup>18</sup> SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  <b>On File</b> Date of Survey Signature and Seal of Professional Surveyor:
				Certificate Number

**District I**

1625 N. French Dr., Hobbs, NM 88240

**District II**

811 South First, Artesia, NM 88210

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410

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State of New Mexico  
Energy, Minerals & Natural Resources Department**OIL CONSERVATION DIVISION**2040 South Pacheco  
Santa Fe, NM 87505Form C-102  
Revised August 15, 2000

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number <b>30-045-09601</b>	<sup>2</sup> Pool Code <b>71280</b>	<sup>3</sup> Pool Name <b>Aztec Pictured Cliffs</b>
<sup>4</sup> Property Code <b>001136</b>	<sup>5</sup> Property Name <b>Storey B LS</b>	<sup>6</sup> Well Number <b>5</b>
<sup>7</sup> OGRID No. <b>000778</b>	<sup>8</sup> Operator Name <b>BP America Production Company</b>	<sup>9</sup> Elevation <b>5862'</b>

<sup>10</sup> Surface Location

UL or lot no. <b>0</b>	Section <b>11</b>	Township <b>30N</b>	Range <b>11W</b>	Lot Idn	Feet from <b>800</b>	North/South <b>South</b>	Feet from <b>1800'</b>	East/West <b>East</b>	County <b>San Juan</b>
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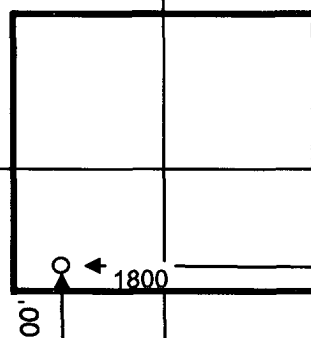
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
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<sup>12</sup> Dedicated Acres <b>160</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A  
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

				<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  <i>Cherry Hlava</i> Signature <b>Cherry Hlava</b> Printed Name <b>Regulatory Analyst</b> Title <b>7/5/2005</b> Date
				<sup>18</sup> SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  <b>Plat on file from 12/04/1959</b> Date of Survey <b>11/28/1959</b> Signature and Seal of Professional Surveyor:  Certificate Number



Storey B LS 5  
Di (annual) 0.143591

30-045-09601

Aztec Pictured Cliffs formation decline

Date	MCF	Date	MCF	Date	MCF	Date	MCF	Date	MCF
7/15/2005	20	7/15/2008	13.00	7/15/2011	8.45	7/15/2014	5.49	7/15/2017	3.57
8/15/2005	19.76	8/15/2008	12.85	8/15/2011	8.35	8/15/2014	5.43	8/15/2017	3.53
9/15/2005	19.53	9/15/2008	12.69	9/15/2011	8.25	9/15/2014	5.36	9/15/2017	3.49
10/15/2005	19.29	10/15/2008	12.54	10/15/2011	8.15	10/15/2014	5.30	10/15/2017	3.44
11/15/2005	19.07	11/15/2008	12.39	11/15/2011	8.06	11/15/2014	5.24	11/15/2017	3.40
12/15/2005	18.84	12/15/2008	12.25	12/15/2011	7.96	12/15/2014	5.17	12/15/2017	3.36
1/15/2006	18.61	1/15/2009	12.10	1/15/2012	7.86	1/15/2015	5.11	1/15/2018	3.32
2/15/2006	18.39	2/15/2009	11.96	2/15/2012	7.77	2/15/2015	5.05	2/15/2018	3.28
3/15/2006	18.17	3/15/2009	11.81	3/15/2012	7.68	3/15/2015	4.99	3/15/2018	3.24
4/15/2006	17.96	4/15/2009	11.67	4/15/2012	7.59	4/15/2015	4.93	4/15/2018	3.21
5/15/2006	17.74	5/15/2009	11.53	5/15/2012	7.50	5/15/2015	4.87	5/15/2018	3.17
6/15/2006	17.53	6/15/2009	11.40	6/15/2012	7.41	6/15/2015	4.82	6/15/2018	3.13
7/15/2006	17.32	7/15/2009	11.26	7/15/2012	7.32	7/15/2015	4.76	7/15/2018	3.09
8/15/2006	17.12	8/15/2009	11.13	8/15/2012	7.23	8/15/2015	4.70	8/15/2018	3.06
9/15/2006	16.92	9/15/2009	10.99	9/15/2012	7.15	9/15/2015	4.65	9/15/2018	3.02
10/15/2006	16.71	10/15/2009	10.86	10/15/2012	7.06	10/15/2015	4.59	10/15/2018	2.98
11/15/2006	16.52	11/15/2009	10.73	11/15/2012	6.98	11/15/2015	4.54	11/15/2018	2.95
12/15/2006	16.32	12/15/2009	10.61	12/15/2012	6.89	12/15/2015	4.48	12/15/2018	2.91
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2/15/2007	15.93	2/15/2010	10.36	2/15/2013	6.73	2/15/2016	4.38	2/15/2019	2.84
3/15/2007	15.74	3/15/2010	10.23	3/15/2013	6.65	3/15/2016	4.32	3/15/2019	2.81
4/15/2007	15.56	4/15/2010	10.11	4/15/2013	6.57	4/15/2016	4.27	4/15/2019	2.78
5/15/2007	15.37	5/15/2010	9.99	5/15/2013	6.49	5/15/2016	4.22	5/15/2019	2.74
6/15/2007	15.19	6/15/2010	9.87	6/15/2013	6.42	6/15/2016	4.17	6/15/2019	2.71
7/15/2007	15.01	7/15/2010	9.75	7/15/2013	6.34	7/15/2016	4.12	7/15/2019	2.68
8/15/2007	14.83	8/15/2010	9.64	8/15/2013	6.27	8/15/2016	4.07	8/15/2019	2.65
9/15/2007	14.65	9/15/2010	9.52	9/15/2013	6.19	9/15/2016	4.02	9/15/2019	2.62
10/15/2007	14.48	10/15/2010	9.41	10/15/2013	6.12	10/15/2016	3.98	10/15/2019	2.58
11/15/2007	14.31	11/15/2010	9.30	11/15/2013	6.04	11/15/2016	3.93	11/15/2019	2.55
12/15/2007	14.14	12/15/2010	9.19	12/15/2013	5.97	12/15/2016	3.88	12/15/2019	2.52
1/15/2008	13.97	1/15/2011	9.08	1/15/2014	5.90	1/15/2017	3.84	1/15/2020	2.49
2/15/2008	13.80	2/15/2011	8.97	2/15/2014	5.83	2/15/2017	3.79	2/15/2020	2.46
3/15/2008	13.64	3/15/2011	8.86	3/15/2014	5.76	3/15/2017	3.75	3/15/2020	2.43
4/15/2008	13.48	4/15/2011	8.76	4/15/2014	5.69	4/15/2017	3.70	4/15/2020	2.41
5/15/2008	13.31	5/15/2011	8.65	5/15/2014	5.63	5/15/2017	3.66	5/15/2020	2.38
6/15/2008	13.16	6/15/2011	8.55	6/15/2014	5.56	6/15/2017	3.61	6/15/2020	2.35



## **Bureau of Land Management Conditions of Approval:**

- 1) If cement squeeze work is necessary, contact Matt Halbert of the BLM Farmington Field Office @ (505) 599-6350.**
- 2) If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.**
- 3) Pits must be lined with an impervious material at least 12 mils thick. The pit must be fenced on three (3) sides during workover operations and on the 4<sup>th</sup> side after the rig moves off location. Pits must be closed within 90 days of completion of the workover operations. Prior to closing the pit the liner must be cut off at mud level.**