Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO 1004-0135
Expires. July 31, 2010

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.

5. Lease Serial No.
JIC108

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8 Well Name and No
JICARILLA C 008E

2. Name of Operator
ENERVEST OPERATING, L.L.C.
Contact: JANET M. BIENSKI
E-Mail. jbienski@enervest net

9 API Well No.
30-039-22577

3a. Address
1001 FANNIN STREET SUITE 800
HOUSTON, TX 77002-6708

3b Phone No (include area code)
Ph: 713-495-1571
Fx: 713-982-1501

10. Field and Pool, or Exploratory
BASIN DAKOTA

4. Location of Well *(Footage, Sec , T , R., M , or Survey Description)*
Sec 13 T26N R5W NENE 1020FNL 870FEL
36.491411 N Lat, 107.304152 W Lon

11 County or Parish, and State
RIO ARRIBA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☒ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 recomplete 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 recompletion 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.)

EnerVest Operating, L.L.C. respectfully requests to P&A this well per the attached procedure.

Also, attached are current and proposed WBDs.

Notify NMOCD 24 hrs prior to beginning operations

RCVD AUG 4 '11
OIL CONS. DIV.
DIST. 3

EI
BP

* Bring top of Gallup plug to 6462' (6690' - 6462')
* Bring top of Nacimiento plug to 1395' (1596' - 1395')

14 I hereby certify that the foregoing is true and correct
Electronic Submission #114180 verified by the BLM Well Information System
For ENERVEST OPERATING, L.L.C., sent to the Rio Puerco

Name *(Printed/Typed)* JANET M. BIENSKI — Title REGULATORY ASSISTANT

Signature (Electronic Submission) — Date 07/29/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By — Title — Date AUG 03 2011

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 FDO

Title 18 U S C Section 1001 and Title 43 U S C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

NMOCD

PLUG AND ABANDONMENT PROCEDURE

November 20, 2009

Jicarilla C #8E
Basin Dakota
1020' FNL, 870' FEL, Section 13, T26N, R5W, Rio Arriba County, New Mexico
API 30-039-22577/ Lat: _____ Long: _____

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. Install and test location rig anchors. Prepare a blow pit. Comply with all State, BLM, and Operator 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 and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.

2. Rods: Yes__X__, No_____, Unknown_____.
   Tubing: Yes __X__, No _____, Unknown_____, Size _2-3/8"___, Length ___7785'__
   Packer: Yes_____, No__X__, Unknown_____, Type _____
   If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.

3. **Plug #1 (Dakota top, 7620' – 7520'):** PU and RIH with 4.5" cement retainer; set at 7620'. Pressure test tubing to 1000 PSI. Pressure test casing to 800 PSI. *If casing does not test, then spot or tag subsequent plugs as appropriate.* Circulate well clean. Spot 12 sxs Class B inside casing above CR to isolate the Dakota interval. PUH.

4. **Plug #2 (Gallup top, ~~6345~~ 6690' – ~~6245~~ 6590'):** Mix 12 sxs Class B cement and spot a balanced plug inside casing to cover the Gallup top. PUH.

5. **Plug #3 (Mesaverde top, 5129' – 5029'):** Mix 12 sxs Class B cement and spot a balanced plug inside casing to cover the Mesaverde top. PUH.

6. **Plug #4 (7" casing shoe, 4.5" liner top and Pictured Cliffs top, 3868' - 3378'):** Mix 83 sxs Class B cement and spot a balanced plug inside casing to cover the 7" casing shoe, 4.5" liner top and Pictured Cliffs top. PUH.

7. **Plug 5 (Fruitland, Kirtland and Ojo Alamo tops, 3304' – 2740'):** Mix 115 sxs Class B cement and spot a balanced plug inside casing to cover the Fruitland, Kirtland and Ojo Alamo tops. PUH.

8. **Plug #6 (Nacimiento top, ~~1469'~~ 1596' – ~~1369~~ 1496'):** Mix 29 sxs Class B cement and spot a balanced plug inside casing to cover Nacimiento top. PUH.

9. **Plug #7 (9.625" casing shoe, 371' – 0'):** Connect the pump line to the bradenhead valve and attempt to pressure test the BH 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 75 sxs

Class B cement and spot a balanced plug inside the casing from 366' to surface, circulate good cement out casing valve. TOH and LD tubing. Shut well in and WOC. If the BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the 7" casing and BH annulus from 371' to surface. Shut well in and WOC.

10. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

Jicarilla C #8E

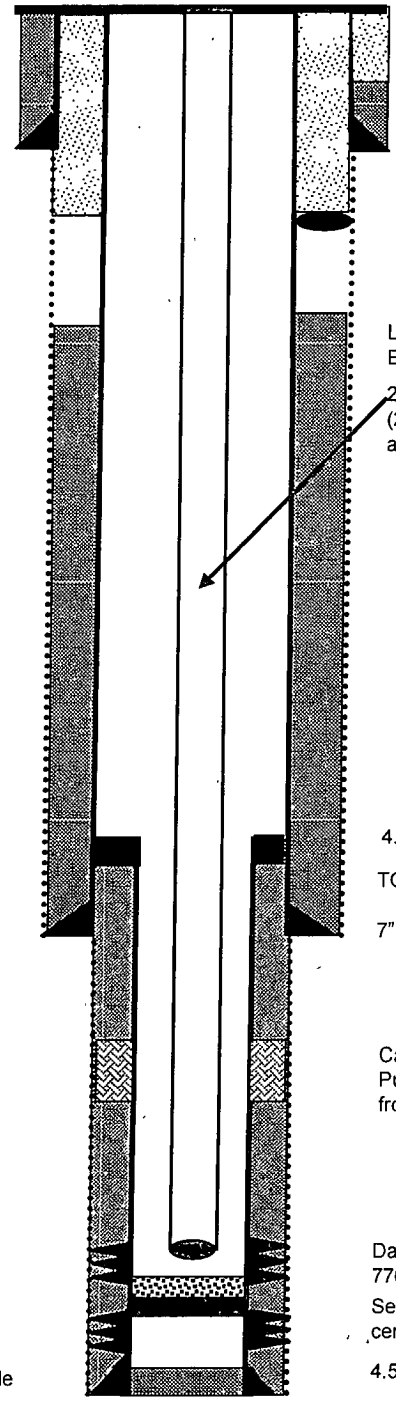
Current

Basin Dakota

1020' FNL, 870' FEL, Section 13, T-26-N, R-5-W, Rio Arriba County, NM

Lat: _____ / Lat: _____ API #30-039-22577

Today's Date: **12/11/09**
Spud: 6/13/81
Completion: 7/21/81
Elevation: 6793' GL



12.25" hole

9.625", 36#, K-55 Casing set @ 321'
Cement with 350 sxs, circulate to surface

Perforate 1 squeeze hole at 620'. Unable to establish rate. Spot 8 bbls of cement. DO to 653'. PT OK. Pump 135 sxs cement behind pipe, lost circulation through bradenhead. PT OK. (1992)

Lost circulation 40 bbls into displacement.
Estimated TOC @ 1010'

2-3/8" tubing at 7785'
(241 jts, 4.7#, J-55, SN @ 7753' with rods and pump)

Nacimiento @ 1419' *est

Ojo Alamo @ 2790' *est

Kirtland @ 3019' *est

Fruitland @ 3254' *est

Pictured Cliffs @ 3428' *est

4.5" TOL @ 3662'

TOC @ 4.5" liner top

8.75" Hole

7" 23#, K-55 Casing set @ 3818'
Cement with 700 sxs

Mesaverde @ 5079'

Casing leak from 5141' – 5270'.
Pump 212 sxs Type III cement. DO from 4752' to 5220' PT OK. (2007)

Gallup @ 6295'

Dakota @ 7665'

Dakota Perforations. 7670' – 7676', 7768' – 7780', 7848' – 7860'

Set CIBP @ 7836' and dump bail 10' cement above. Tag TOC @ 7833' (2007)

6.25" Hole

4.5", 11.6#/10.5#, K-55 casing liner set @ 7899'
Cemented with 550 sxs (1085 cf)

TD 7899'
PBTD 7833'

Jicarilla C #8E

Proposed P&A

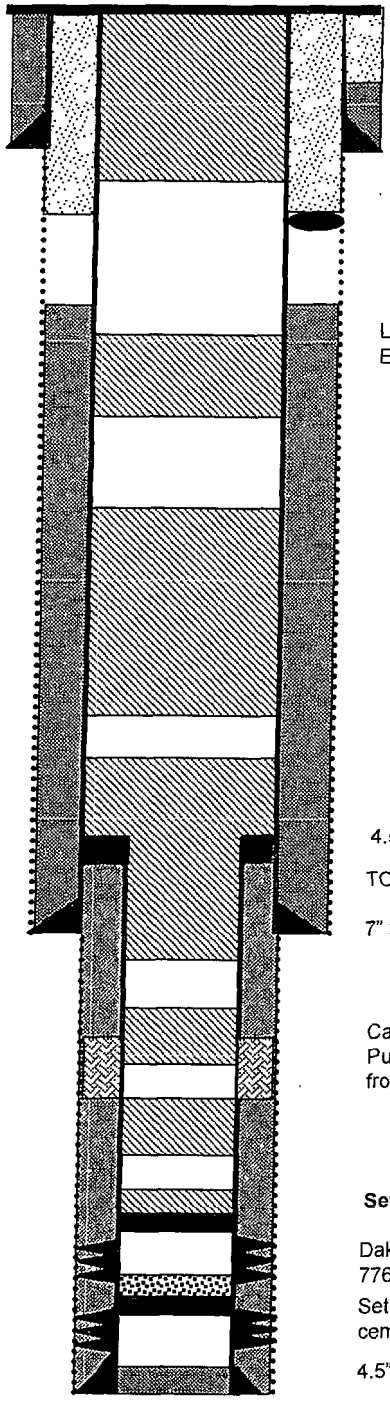
Basin Dakota

1020' FNL, 870' FEL, Section 13, T-26-N, R-5-W, Rio Arriba County, NM

Today's Date: **12/11/09**
Spud: 6/13/81
Completion: 7/21/81
Elevation: 6793' GL

Lat: _____ / Lat: _____ API #30-039-22577

371/4.524(1.18) = 69 sks



12.25" hole

8.75" Hole

6.25" Hole

TD 7899'
PBTD 7833'

Nacimiento @ ~~1419~~' *est
1546 1445'

Ojo Alamo @ ~~2790~~' *est
2826 2832'

Kirtland @ ~~3019~~' *est
62 3086'

Fruitland @ ~~3254~~' *est
66 3251'

Pictured Cliffs @ 3428' *est
4 3432'

Mesaverde @ 5079'
54

Gallup @ ~~6295~~' 6512'
6640

Dakota @ ~~7665~~'
57

Plug #7: 371' – 0'
Class B cement, 75 sxs

9.625", 36#, K-55 Casing set @ 321'
Cement with 350 sxs, circulate to surface

Perforate 1 squeeze hole at 620'. Unable to establish rate. Spot 8 bbls of cement. DO to 653'. PT OK. Pump 135 sxs cement behind pipe; lost circulation through bradenhead. PT OK. (1992)-

Lost circulation 40 bbls into displacement.
Estimated TOC @ 1010'

1596 1496

Plug #6: ~~1469'~~ – ~~1369'~~
Class B cement, 29 sxs

150/4.524(1.18) = 28 sks

Plug #5: 3304' – 2740'
Class B cement, 115 sxs

3304 - 2740 + 14 / 4.524(1.18) = 108 sks

Plug #4: 3868' – 3378'
Class B cement, 83 sxs

4.5" TOL @ 3662'

3868 - 3662 / 11.67(1.18) = 16 sks

TOC @ 4.5" liner top

3662 - 3378 + 50 / 4.524(1.18) = 63 sks

79 sks

7" 23#, K-55 Casing set @ 3818'
Cement with 700 sxs

Plug #3: 5129' – 5029'
Class B cement, 12 sxs

Casing leak from 5141' – 5270'.
Pump 212 sxs Type III cement. DO from 4752' to 5220' PT OK. (2007)

6690 6590

Plug #2: ~~6345'~~ – ~~6245'~~
Class B cement, 12 sxs

Set CR @ 7620'

Plug #1: 7620' – 7520'
Class B cement, 12 sxs

Dakota Perforations: 7670' – 7676', 7768' – 7780', 7848' – 7860'

12(11.67)1.18 = 158'

Set CIBP @ 7836' and dump bail 10' cement above. Tag TOC @ 7833' (2007)

4.5", 11.6#/10.5#, K-55 casing liner set @ 7899'
Cemented with 550 sxs (1085 cf)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
1235 LA PLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: 8E Jicarilla C

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."

2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.

3. The following modifications to your plugging program are to be made:

a) Place the Gallup plug from ~~4577' – 4477'~~ 6690' – 6590'. Bring Gallup plug top to 6462' (6690' - 6462')

b) Place the Nacimiento plug from 1596' – 1496'. Bring top of Nacimiento plug to 1395' (1596' - 1395')

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

Bienski, Janet

From: smason@blm.gov
Sent: Wednesday, August 03, 2011 10:31 AM
To: Bienski, Janet
Subject: Well JICARILLA C 8E
Attachments: EC114180.pdf

The sundry for Plug and Abandonment you submitted has been approved by the BLM. Your original EC transmission was assigned ID 114180. Please be sure to open and save all attachments to this message, since they contain important information.

Changes to plugging procedure:

a) Place the Gallup plug from 6690' - 6590'.

b) Place the Nacimiento plug from 1596' - 1496'.

Notify NMOCD 24 hrs prior to beginning operations

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO 1004-0135
Expires. July 31, 2010

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.

5. Lease Serial No
JIC108

6. If Indian, Allottee or Tribe Name
JICARILLA APACHE

7. If Unit or CA/Agreement, Name and/or No.

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

8 Well Name and No
JICARILLA C 8E

2. Name of Operator
ENER VEST OPERATING LLC
Contact: JANET M BIENSKI
E-Mail jbienski@enervest.net

9 API Well No.
30-039-22577-00-S1

3a. Address
1001 FANNIN STREET SUITE 800
HOUSTON, TX 77002-6708

3b. Phone No. (include area code)
Ph: 713-495-1571
Fx: 713-982-1501

10 Field and Pool, or Exploratory
BASIN DAKOTA

4. Location of Well *(Footage, Sec , T , R , M , or Survey Description)*
Sec 13 T26N R5W NENE 1020FNL 870FEL
36.491411 N Lat, 107.304152 W Lon

11. County or Parish, and State
RIO ARRIBA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☒ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

BR

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 recomplete 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 recompletion 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.)

EnerVest Operating, L.L.C. respectfully requests to P&A this well per the attached procedure.

Also, attached are current and proposed WBDs.

Notify NMOCD 24 hrs prior to beginning operations

RECEIVED
AUG 2011
OIL CONS. DIV. DIST. 3

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #114180 verified by the BLM Well Information System
For ENER VEST OPERATING LLC, sent to the Rio Puerco
Committed to AFMSS for processing by STEVE MASON on 08/03/2011 (11SXM0326SE)

Name *(Printed/Typed)* JANET M. BIENSKI — Title REGULATORY ASSISTANT

Signature (Electronic Submission) — Date 07/29/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By STEPHEN MASON — Title PETROLEUM ENGINEER — Date 08/03/2011

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 Rio Puerco

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Revisions to Operator-Submitted EC Data for Sundry Notice #114180

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	ABD NOI	ABD NOI
Lease	JIC108	JIC108
Agreement		
Operator:	ENERVEST OPERATING, L.L.C. 1001 FANNIN STREET SUITE 800 HOUSTON, TX 77002-6708 Ph: 713-495-1571	ENER VEST OPERATING LLC 1001 FANNIN STREET SUITE 800 HOUSTON, TX 77002-6708 Ph: 713.495.6530
Admin Contact:	JANET M BIENSKI REGULATORY ASSISTANT E-Mail: jbienski@enervest net Ph: 713-495-1571 Fx 713-982-1501	JANET M BIENSKI REGULATORY ASSISTANT E-Mail. jbienski@enervest net Ph. 713-495-1571 Fx: 713-982-1501
Tech Contact:	JANET M. BIENSKI REGULATORY ASSISTANT E-Mail jbienski@enervest.net Ph: 713-495-1571 Fx. 713-982-1501	JANET M. BIENSKI REGULATORY ASSISTANT E-Mail: jbienski@enervest.net Ph: 713-495-1571 Fx 713-982-1501
Location: State: County:	 NM RIO ARRIBA	 NM RIO ARRIBA
Field/Pool:	BASIN DAKOTA	BASIN DAKOTA
Well/Facility	JICARILLA C 008E Sec 13 T26N R5W NENE 1020FNL 870FEL 36.491411 N Lat, 107.304152 W Lon	JICARILLA C 8E Sec 13 T26N R5W NENE 1020FNL 870FEL 36 491411 N Lat, 107.304152 W Lon

PLUG AND ABANDONMENT PROCEDURE

November 20, 2009

Jicarilla C #8E
Basin Dakota
1020' FNL, 870' FEL, Section 13, T26N, R5W, Rio Arriba County, New Mexico
API 30-039-22577/ Lat: _____ Long: _____

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. Install and test location rig anchors. Prepare a blow pit. Comply with all State, BLM, and Operator 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 and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.

2. Rods: Yes__X__, No____, Unknown_____.
   Tubing: Yes __X__, No _____, Unknown_____, Size _2-3/8"___, Length ___7785'__
   Packer: Yes_____, No__X__, Unknown_____, Type _____
   If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.

3. **Plug #1 (Dakota top, 7620' – 7520'):** PU and RIH with 4.5" cement retainer; set at 7620'. Pressure test tubing to 1000 PSI. Pressure test casing to 800 PSI. *If casing does not test, then spot or tag subsequent plugs as appropriate.* Circulate well clean. Spot 12 sxs Class B inside casing above CR to isolate the Dakota interval. PUH.

4. **Plug #2 (Gallup top, 6345' – 6245'):** Mix 12 sxs Class B cement and spot a balanced plug inside casing to cover the Gallup top. PUH.

5. **Plug #3 (Mesaverde top, 5129' – 5029'):** Mix 12 sxs Class B cement and spot a balanced plug inside casing to cover the Mesaverde top. PUH.

6. **Plug #4 (7" casing shoe, 4.5" liner top and Pictured Cliffs top, 3868' - 3378'):** Mix 83 sxs Class B cement and spot a balanced plug inside casing to cover the 7" casing shoe, 4.5" liner top and Pictured Cliffs top. PUH.

7. **Plug 5 (Fruitland, Kirtland and Ojo Alamo tops, 3304' – 2740'):** Mix 115 sxs Class B cement and spot a balanced plug inside casing to cover the Fruitland, Kirtland and Ojo Alamo tops. PUH.

8. **Plug #6 (Nacimiento top, 1469' – 1369'):** Mix 29 sxs Class B cement and spot a balanced plug inside casing to cover Nacimiento top. PUH.

9. **Plug #7 (9.625" casing shoe, 371' – 0'):** Connect the pump line to the bradenhead valve and attempt to pressure test the BH 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 75 sxs

Class B cement and spot a balanced plug inside the casing from 366' to surface, circulate good cement out casing valve. TOH and LD tubing. Shut well in and WOC. If the BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the 7" casing and BH annulus from 371' to surface. Shut well in and WOC.

10. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

Jicarilla C #8E

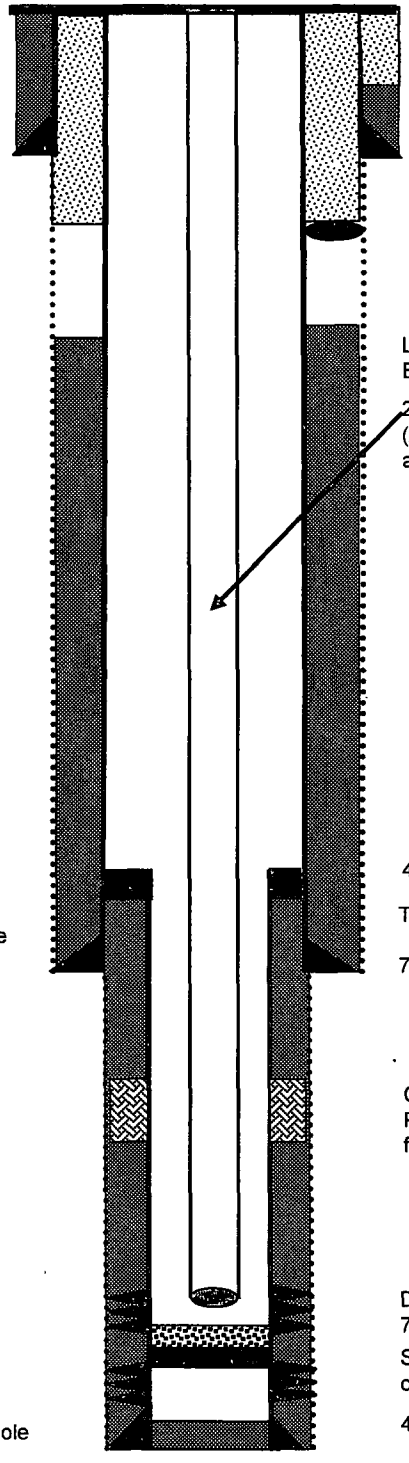
Current

Basin Dakota

1020' FNL, 870' FEL, Section 13, T-26-N, R-5-W, Rio Arriba County, NM

Today's Date: **12/11/09**
Spud: 6/13/81
Completion: 7/21/81
Elevation: 6793' GL

Lat: _____ / Lat: _____ API #30-039-22577



12.25" hole

9.625", 36#, K-55 Casing set @ 321'
Cement with 350 sxs, circulate to surface

Perforate 1 squeeze hole at 620'. Unable to establish rate. Spot 8 bbls of cement DO to 653'. PT OK. Pump 135 sxs cement behind pipe; lost circulation through bradenhead. PT OK. (1992)

Lost circulation 40 bbls into displacement.
Estimated TOC @ 1010'

2-3/8" tubing at 7785'
(241 jts, 4.7#, J-55, SN @ 7753' with rods and pump)

Nacimiento @ 1419' *est

Ojo Alamo @ 2790' *est

Kirtland @ 3019' *est

Fruitland @ 3254' *est

Pictured Cliffs @ 3428' *est

4.5" TOL @ 3662'

TOC @ 4 5" liner top

8.75" Hole

7" 23#, K-55 Casing set @ 3818'
Cement with 700 sxs

Mesaverde @ 5079'

Casing leak from 5141' – 5270'.
Pump 212 sxs Type III cement. DO from 4752' to 5220' PT OK. (2007)

Gallup @ 6295'

Dakota @ 7665'

Dakota Perforations: 7670' – 7676', 7768' – 7780', 7848' – 7860'

Set CIBP @ 7836' and dump bail 10' cement above. Tag TOC @ 7833' (2007)

6 25" Hole

4.5", 11.6#/10.5#, K-55 casing liner set @ 7899'
Cemented with 550 sxs (1085 cf)

TD 7899'
PBTD 7833'

Jicarilla C #8E

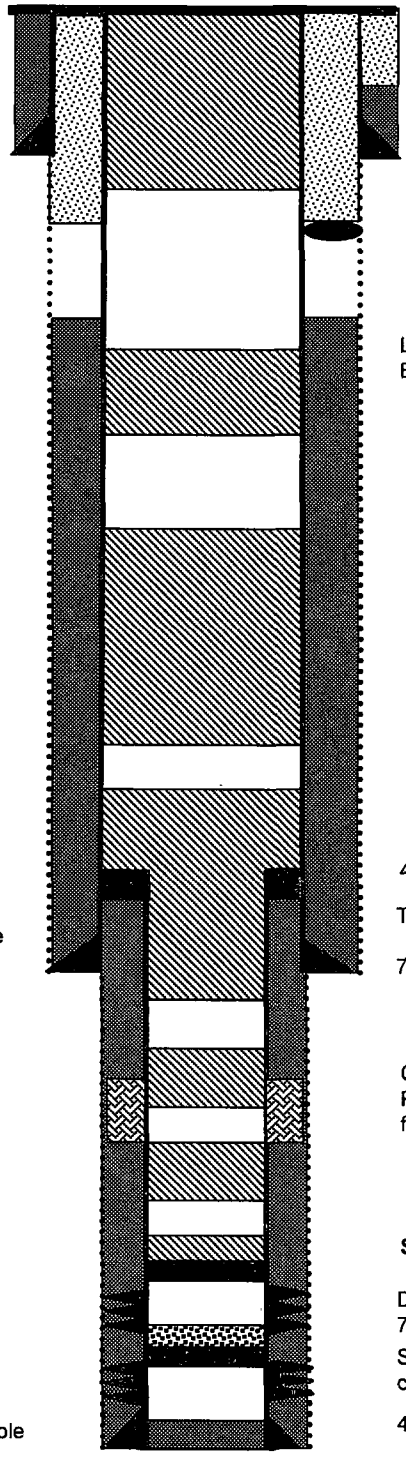
Proposed P&A

Basin Dakota

1020' FNL, 870' FEL, Section 13, T-26-N, R-5-W, Rio Arriba County, NM

Today's Date: **12/11/09**
Spud: 6/13/81
Completion: 7/21/81
Elevation: 6793' GL

Lat: _____ / Lat: _____ API #30-039-22577



12.25" hole

8.75" Hole

6.25" Hole

Nacimiento @ 1419' *est

Ojo Alamo @ 2790' *est

Kirtland @ 3019' *est

Fruitland @ 3254' *est

Pictured Cliffs @ 3428' *est

Mesaverde @ 5079'

Gallup @ 6295'

Dakota @ 7665'

Plug #7: 371' – 0'
Class B cement, 75 sxs

9.625", 36#; K-55 Casing set @ 321'
Cement with 350 sxs, circulate to surface

Perforate 1 squeeze hole at 620'. Unable to establish rate. Spot 8 bbls of cement. DO to 653'. PT OK. Pump 135 sxs cement behind pipe; lost circulation through bradenhead. PT OK. (1992)

Lost circulation 40 bbls into displacement.
Estimated TOC @ 1010'

Plug #6: 1469' – 1369'
Class B cement, 29 sxs

Plug #5: 3304' – 2740'
Class B cement, 115 sxs

Plug #4: 3868' – 3378'
Class B cement, 83 sxs

4.5" TOL @ 3662'

TOC @ 4.5" liner top

7" 23#, K-55 Casing set @ 3818'
Cement with 700 sxs

Plug #3: 5129' – 5029'
Class B cement, 12 sxs

Casing leak from 5141' – 5270'.
Pump 212 sxs Type III cement. DO from 4752' to 5220' PT OK. (2007)

Plug #2: 6345' – 6245'
Class B cement, 12 sxs

Set CR @ 7620'

Plug #1: 7620' – 7520'
Class B cement, 12 sxs

Dakota Perforations: 7670' – 7676', 7768' – 7780', 7848' – 7860'

Set CIBP @ 7836' and dump bail 10' cement above Tag TOC @ 7833' (2007)

4.5", 11.6#/10.5#, K-55 casing liner set @ 7899'
Cemented with 550 sxs (1085 cf)

TD 7899'
PBTD 7833'