

DATE IN 2/9/07	SUSPENSE	ENGINEER W. Jones	LOGGED IN 2/9/07	TYPE DHC 3853	APP NO. PTDS070404/9230
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ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



### ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

#### Application Acronyms:

**[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]**  
**[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]**  
**[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]**  
**[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]**  
**[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]**  
**[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]**

#### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \_\_\_\_\_

#### [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO  
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

#### [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Cherry Hlava

Print or Type Name

Cherry Hlava

Signature

Regulatory Analyst

Title

2-6-2007

Date

hlavacl@bp.com

e-mail Address



Submit 3 Copies To Appropriate District  
Office  
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  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised March 25, 1999

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

WELL API NO.	30-045-07186
5. Indicate Type of Lease	STATE FEE
6. State Oil & Gas Lease No.	

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

7. Lease Name or Unit Agreement Name:  
  
Riddle F LS  
(Notified BLM of DHC intent on APD filing  
(NMSF 080112)

2. Name of Operator  
BP America Production Company Attn: Cherry Hlava

8. Well No.  
4

3. Address of Operator  
P.O. Box 3092 Houston, TX 77253

9. Pool name or Wildcat  
Basin Dakota & Blanco Mesaverde

4. Well Location

Unit Letter B 1000 feet from the North line and 1550 feet from the East line

Section 29 Township 28N Range 08W NMPM San Juan County

10. Elevation (Show whether DR, RKB, RT, GR, etc.)  
5821' GR

11. 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 COMPLETION ☐

OTHER: Downhole Tri-mingle ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. 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 recompilation.

BP America Production Co. request permission to complete the subject well into the Otero Chacra Pool & commingle production Downhole with the existing Blanco Mesaverde & Pictured Cliffs production as per the attached procedure.

The Basin Dakota (71599) Blanco Mesaverde (72319) & Chacra (82329 Pools are Pre-Approved for Downhole Commingling per NMOCD Order 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 and Mesaverde Pools. This production shall serve as a base for production subtracted from the total production for the commingled well. The balance of the production will be attributed to the Chacra. Attached are the future production decline estimates for the PC & MV Pools.

Commingling Production Downhole in the subject well from the proposed pools with not reduce the value of the total remaining production.

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

SIGNATURE Cherry Hlava TITLE Regulatory Analyst DATE 02/06/2007

Type or print name Cherry Hlava Telephone No. 281-366-4081

(This space for State use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of approval, if any:

**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>30-045-07186</b>	<sup>2</sup> Pool Code <b>82329</b>	<sup>3</sup> Pool Name <b>Otero Chacra</b>
<sup>4</sup> Property Code <b>000978</b>	<sup>5</sup> Property Name <b>Riddle F LS</b>	
<sup>7</sup> OGRID No. <b>000778</b>	<sup>8</sup> Operator Name <b>BP America Production Company</b>	
	<sup>6</sup> Well Number <b>4</b>	
	<sup>9</sup> Elevation <b>5821'</b>	

<sup>10</sup> Surface Location									
UL or lot no. <b>B</b>	Section <b>29</b>	Township <b>28N</b>	Range <b>08W</b>	Lot Idn	Feet from <b>1000'</b>	North/South <b>North</b>	Feet from <b>1550</b>	East/West <b>East</b>	County <b>San Juan</b>

<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
<sup>12</sup> Dedicated Acres <b>160</b>		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code			<sup>15</sup> Order No.		

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>7</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> <b>Cherry Hlava</b>
	Signature <b>Cherry Hlava</b>
	Printed Name <b>Regulatory Analyst</b>
	Title <b>12/4/2006</b>
	<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: <b>Fred B Kerr 3950</b>
	Certificate Number

Riddle F LS 4																				
MesaVerde Formation																				
API #	3004507186																			
Starting 1/97 thru 3/22																				
Exponential Decline																				
Qi =	53.3	mcf/d	1-Jul-2006																	
Qf =	15.0	mcf/d																		
D =	3.29%	per year																		
	Gas Rate			Gas Rate		Gas Rate		Gas Rate				Gas Rate							Gas Rate	
Date	mcf/d		Date	mcf/d		Date	mcf/d		Date	mcf/d		Date	mcf/d		Date	mcf/d		Date	mcf/d	
Jan-06	0		Apr-09	49		Jul-12	43		Oct-15	39		Jan-19	35					Jan-19	35	
Feb-06	84		May-09	48		Aug-12	43		Nov-15	39		Feb-19	35					Feb-19	35	
Mar-06	67		Jun-09	48		Sep-12	43		Dec-15	39		Mar-19	35					Mar-19	35	
Apr-06	63		Jul-09	48		Oct-12	43		Jan-16	39		Apr-19	35					Apr-19	35	
May-06	50		Aug-09	48		Nov-12	43		Feb-16	39		May-19	35					May-19	35	
Jun-06	52		Sep-09	48		Dec-12	43		Mar-16	38		Jun-19	35					Jun-19	35	
Jul-06	53		Oct-09	48		Jan-13	43		Apr-16	38		Jul-19	34					Jul-19	34	
Aug-06	53		Nov-09	48		Feb-13	43		May-16	38		Aug-19	34					Aug-19	34	
Sep-06	53		Dec-09	48		Mar-13	43		Jun-16	38		Sep-19	34					Sep-19	34	
Oct-06	53		Jan-10	47		Apr-13	43		Jul-16	38		Oct-19	34					Oct-19	34	
Nov-06	53		Feb-10	47		May-13	42		Aug-16	38		Nov-19	34					Nov-19	34	
Dec-06	53		Mar-10	47		Jun-13	42		Sep-16	38		Dec-19	34					Dec-19	34	
Jan-07	52		Apr-10	47		Jul-13	42		Oct-16	38		Jan-20	34					Jan-20	34	
Feb-07	52		May-10	47		Aug-13	42		Nov-16	38		Feb-20	34					Feb-20	34	
Mar-07	52		Jun-10	47		Sep-13	42		Dec-16	37		Mar-20	34					Mar-20	34	
Apr-07	52		Jul-10	47		Oct-13	42		Jan-17	37		Apr-20	34					Apr-20	34	
May-07	52		Aug-10	46		Nov-13	42		Feb-17	37		May-20	33					May-20	33	
Jun-07	52		Sep-10	46		Dec-13	42		Mar-17	37		Jun-20	33					Jun-20	33	
Jul-07	52		Oct-10	46		Jan-14	41		Apr-17	37		Jul-20	33					Jul-20	33	
Aug-07	51		Nov-10	46		Feb-14	41		May-17	37		Aug-20	33					Aug-20	33	
Sep-07	51		Dec-10	46		Mar-14	41		Jun-17	37		Sep-20	33					Sep-20	33	
Oct-07	51		Jan-11	46		Apr-14	41		Jul-17	37		Oct-20	33					Oct-20	33	
Nov-07	51		Feb-11	46		May-14	41		Aug-17	37		Nov-20	33					Nov-20	33	
Dec-07	51		Mar-11	46		Jun-14	41		Sep-17	37		Dec-20	33					Dec-20	33	
Jan-08	51		Apr-11	45		Jul-14	41		Oct-17	37		Jan-21	33					Jan-21	33	
Feb-08	50		May-11	45		Aug-14	41		Nov-17	36		Feb-21	33					Feb-21	33	
Mar-08	50		Jun-11	45		Sep-14	41		Dec-17	36		Mar-21	33					Mar-21	33	
Apr-08	50		Jul-11	45		Oct-14	40		Jan-18	36		Apr-21	33					Apr-21	33	
May-08	50		Aug-11	45		Nov-14	40		Feb-18	36		May-21	32					May-21	32	
Jun-08	50		Sep-11	45		Dec-14	40		Mar-18	36		Jun-21	32					Jun-21	32	
Jul-08	50		Oct-11	45		Jan-15	40		Apr-18	36		Jul-21	32					Jul-21	32	
Aug-08	50		Nov-11	45		Feb-15	40		May-18	36		Aug-21	32					Aug-21	32	
Sep-08	49		Dec-11	44		Mar-15	40		Jun-18	36		Sep-21	32					Sep-21	32	
Oct-08	49		Jan-12	44		Apr-15	40		Jul-18	36		Oct-21	32					Oct-21	32	
Nov-08	49		Feb-12	44		May-15	40		Aug-18	36		Nov-21	32					Nov-21	32	
Dec-08	49		Mar-12	44		Jun-15	40		Sep-18	35		Dec-21	32					Dec-21	32	
Jan-09	49		Apr-12	44		Jul-15	39		Oct-18	35		Jan-22	32					Jan-22	32	
Feb-09	49		May-12	44		Aug-15	39		Nov-18	35		Feb-22	32					Feb-22	32	
Mar-09	49		Jun-12	44		Sep-15	39		Dec-18	35		Mar-22	32					Mar-22	32	

Riddle F LS 4										
Pictured Cliffs Formation										
API #	30-045-07186									
Starting 4/05 thru 1/23										
Exponential Decline										
Qi =	40.3267	mcf/d	1-Jul-2006							
Qf =	3.0	mcf/d								
D =	6.63%	per year								
	Gas Rate			Gas Rate			Gas Rate			Gas Rate
Date	mcf/d		Date	mcf/d		Date	mcf/d		Date	mcf/d
Jan-06	42		Jun-09	33		Nov-12	26		Sep-19	16
Feb-06	48		Jul-09	33		Dec-12	26		Oct-19	16
Mar-06	42		Aug-09	33		Jan-13	26		Nov-19	16
Apr-06	39		Sep-09	32		Feb-13	26		Dec-19	16
May-06	38		Oct-09	32		Mar-13	25		Jan-20	16
Jun-06	38		Nov-09	32		Apr-13	25		Feb-20	16
Jul-06	40		Dec-09	32		May-13	25		Mar-20	16
Aug-06	40		Jan-10	32		Jun-13	25		Apr-20	16
Sep-06	40		Feb-10	31		Jul-13	25		May-20	16
Oct-06	40		Mar-10	31		Aug-13	25		Jun-20	15
Nov-06	39		Apr-10	31		Sep-13	25		Jul-20	15
Dec-06	39		May-10	31		Oct-13	24		Aug-20	15
Jan-07	39		Jun-10	31		Nov-13	24		Sep-20	15
Feb-07	39		Jul-10	31		Dec-13	24		Oct-20	15
Mar-07	38		Aug-10	30		Jan-14	24		Nov-20	15
Apr-07	38		Sep-10	30		Feb-14	24		Dec-20	15
May-07	38		Oct-10	30		Mar-14	24		Jan-21	15
Jun-07	38		Nov-10	30		Apr-14	24		Feb-21	15
Jul-07	38		Dec-10	30		May-14	24		Mar-21	15
Aug-07	37		Jan-11	30		Jun-14	23		Apr-21	15
Sep-07	37		Feb-11	29		Jul-14	23		May-21	15
Oct-07	37		Mar-11	29		Aug-14	23		Jun-21	14
Nov-07	37		Apr-11	29		Sep-14	23		Jul-21	14
Dec-07	37		May-11	29		Oct-14	23		Aug-21	14
Jan-08	36		Jun-11	29		Nov-14	23		Sep-21	14
Feb-08	36		Jul-11	29		Dec-14	23		Oct-21	14
Mar-08	36		Aug-11	28		Jan-15	22		Nov-21	14
Apr-08	36		Sep-11	28		Feb-15	22		Dec-21	14
May-08	35		Oct-11	28		Mar-15	22		Jan-22	14
Jun-08	35		Nov-11	28		Apr-15	22		Feb-22	14
Jul-08	35		Dec-11	28		May-15	22		Mar-22	14
Aug-08	35		Jan-12	28		Jun-15	22		Apr-22	14
Sep-08	35		Feb-12	27		Jul-15	22		May-22	14
Oct-08	34		Mar-12	27		Aug-15	22		Jun-22	14
Nov-08	34		Apr-12	27		Sep-15	21		Jul-22	13
Dec-08	34		May-12	27		Oct-15	21		Aug-22	13
Jan-09	34		Jun-12	27		Nov-15	21		Sep-22	13
Feb-09	34		Jul-12	27		Dec-15	21		Oct-22	13
Mar-09	34		Aug-12	26		Jan-16	21		Nov-22	13
Apr-09	33		Sep-12	26		Feb-16	21		Dec-22	13
May-09	33		Oct-12	26		Mar-16	21		Jan-23	13

## SJ Basin Well Work Procedure

Well Name: Riddle F LS 4

Date: Nov 28, 2006

Repair Type: Payadd

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Location: T28N-R8W-Sec29

API #: 30-045-07186

County: San Juan

State: New Mexico

Engr: Jesse Gracia

Horizon: Mesaverde/Chacra/PC

ph (281) 366-1946

fax (281) 366-0700

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**Objective: Perforate and frac Chacra & downhole tri-mingle with existing Pictured Cliffs and Mesaverde**

### Procedure:

1. Perform pre-rig site inspection. Check for: size of location, Gas Taps, other wells, other operators, running equipment, wetlands, wash (dikes req.), H2S, barriers needed for equipment, Landowner issues, location of pits (buried lines in pits), Raptor nesting, critical location, check anchors. Check ID wellhead, if earth pit is required have One Call made 48 hours prior to digging.
2. Perform second site visit after lines are marked to ensure all lines clear marked pit locations. Planning and Scheduling to ready location for rig.
3. RU slickline unit or wireline unit. Pressure test lubricator and equipment. RIH and set **two** barriers (CIBP, tbg collar stop w/plug, or plug set in nipple) for isolation in both tubing strings.
4. Check and record tubing, casing, and bradenhead pressures. Ensure production casing has double casing valves installed. Double valve all casing strings.
5. MIRU workover rig. LO/TO all necessary equipment including but not limited to: meter run, Automation, Separators and water lines.
6. Blow down well. Kill with 2% KCL water ONLY if necessary.
7. Check all casing strings to ensure no pressure exist on any annulus. **The operations of removal of wellhead and installation of BOP's will be performed under a dispensation for one (1) barrier on the backside.**
8. Nipple down Wellhead. NU BOPs and diversion spool with 3" outlets and 3" pipe to the blow tank. BOP should be equipped with 1 1/4" offset pipe ram. Pressure test BOPs to

200 psi above BHP. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover.

9. Install stripping rubber, pull tubing hanger up above pipe rams, shut-in pipe rams, remove stripping rubber. Strip tubing hanger OOH. Re-install stripping rubber.
10. TOH and LD 1-1/4" EUE production tubing currently set at 2240'. Using approved "Under Balance Well Control Tripping Procedure".
11. Change BOP pipe ram and stripping rubber to 2". TOH w/ packer and 2" production tubing currently set at 4563'. Using approved "Under Balance Well Control Tripping Procedure".
12. TIH w/ 5-1/2" scraper. Check the distance between the top of the blind rams and the length of the bottom hole assembly that is being run. If the BHA is too long then the well has to be top killed and monitored prior to opening blind rams. RIH to PBTD at 4,615'. POOH.
13. Set composite bridge plug at +/-4,400'. Fill casing w/ 2%KCl from the bottom to PC (2220').
14. RU E-line equipment. Pressure test lubricator and equipment. Log well w/ CBL from 4,440' to TOL @ 2329'. Contact Jesse Gracia after determining TOC in 5 1/2" liner to discuss packer placement or remedial cement squeeze.
15. Replace wellhead if needed.
16. TIH with 2 7/8" x 5 1/2" test packer on 3 1/2" tubing. Set Packer at +/-2380'
17. Pressure test 5 1/2" casing down tubing to 2000 psi surface pressure. Note with 2% KCl fluid in the hole, the 5 1/2" casing will be tested to approximately 3100 psi.
18. TOH w/ tubing and packer.
19. Prepare for explosive operations. Follow Schlumberger Explosive SOP including radio silence, suspension of welding operations, and isolation of electrical devices from the work area. Perform Pre-job Safety Meeting to review JSA and procedures. Meeting should address the VDR (vehicle data recorder) System that Bp people have installed on their vehicles. They must be shut off at the 300 foot sign by hitting 00 and then the enter button, and then wait for about 5 minutes for the unit to turn off. When the green light goes out, call the control center at 326-9475. This number is on a pickup list in the Optimizer room and should be your first point of contact followed by the front desk then the weekend pager. Verify the unit is not transmitting. You then can drive to location and park, but do not to exceed 10 Miles/hr. Note: 20 MPH will turn unit back on. If someone has On Star on their vehicle they cannot enter closer than 300 foot. On Star cannot be turned off. PLEASE take special caution. This is in conjunction with all cell phones, pagers, radios and any electronic device that transmits a signal.
20. RIH with 3-1/8" casing guns w/lubricator and perforate Chacra formation. (50 Holes Total)



## **2 SPF:**

21. TIH w/ 3-1/2" N-80 frac string with one jt of 2 7/8" N-80 and 5 1/2" x 2 7/8" packer. Configure packer assembly as 2 7/8" x 5 1/2" (full bore); 2 7/8" downhole shutoff valve. This assembly will be made up and pressure tested in the packer service shop.
22. RU 10,000 psi isolation tool (use full bore tool to reduce turbulence and chance for washout). Space out and land frac string.
23. Close shutoff valve. Load tubing and pressure test to approximately 1500 psi with rig pumps. RU test pump and pressure test tubing to 5000 psi for 10-15 minutes. Set packer at 2380'.
24. RU schlumberger frac equipment. Purge pumps and pressure test iron to frac valve at 6000 psi. Set pump trips at 5000 psi. Set PRV at 5100-5200 psi. Treat well at a maximum of 5000 psi.
25. Install and monitor production casing and treating pressure during entire job in frac van via pressure transducers on production casing and treating line. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule. Maintain surface pressures less than 5,000 psi during frac job. Flush frac with foam. Fill out GWSI scorecard.
26. Flowback frac immediately. Flow well through choke manifold on 1/4", 1/2" and 3/4" chokes slowly increasing drawdown until well dies or stabilizes. This is to aid in reducing sand flowback. Recommend 8 hours of flow for each choke size.
27. Release packer. TOH w/ 3 1/2" frac string and packer.
28. Rig up air package/unit, pressure test all lines (Testing procedure to be supplied from air company), TIH with tubing and bit for 5 1/2" casing. Cleanout fill to BP set at +/-4,400'.
29. RIH w/ frac string and 3 1/2" x 5 1/2" packer. Set packer at +/- 2380' and **perform flow test on Chacra and document in DIMS.**
30. Release packer. TOH w/ 3 1/2" frac string and packer.
31. TIH w/ tubing and bit for 5-1/2" casing. Drill out BP set at 4,400'. Cleanout to PBTD at 4,615'.
32. Rabbit tubing and RIH with 2-3/8" production tubing (with muleshoe, F-nipple with plug, 4 ft pup, X-nipple with plug).
33. Land 2-3/8" production tubing at +/-4,563'. Lock down 2 3/8" tubing hanger and bonnet.
34. Pressure test tubing to 500 psi with air unit, make sure tubing spool valves are open. Care should be taken during pressure testing of the tubing due to potential problem

caused if tubing parts close to surface or above the hanger. Check all casing string for pressure. **The operations of removal of wellhead and installation of BOP's will be performed under a dispensation for one (1) barrier on the backside.**

35. ND BOP's. NU Wellhead. During Master valve placement ensure the top of hanger has spacer nipple in place to bottom of bonnet flange so plunger equipment will not hang up through tree. Pressure test Wellhead.
36. RU WL unit. Run gauge ring for 2-3/8" tubing. Pull plugs and set tubing stop for plunger. Communicate plunger equipment status to IC room personnel.
37. RD slickline unit.
38. Test well for air. Return well to production and downhole tri-mingle PC, Chacra and Mesaverde.

# Riddle F LS 004 PC/MV

API# 3004507186

Sec 29, T28N, R8W

GL: 5831'

## History:

- Drilled & completed in 12/1957

## PC Perforation

2146' - 2162' (sqzd w/ 100 sxs)

2160' - 2220'

1 1/4" 2.4#, J-55 tubing @ 2240'

Baker "EGJ" Paker @ 2379'

## Formation Tops:

Ojo Alamo 1190

PC 2157

CHACRA

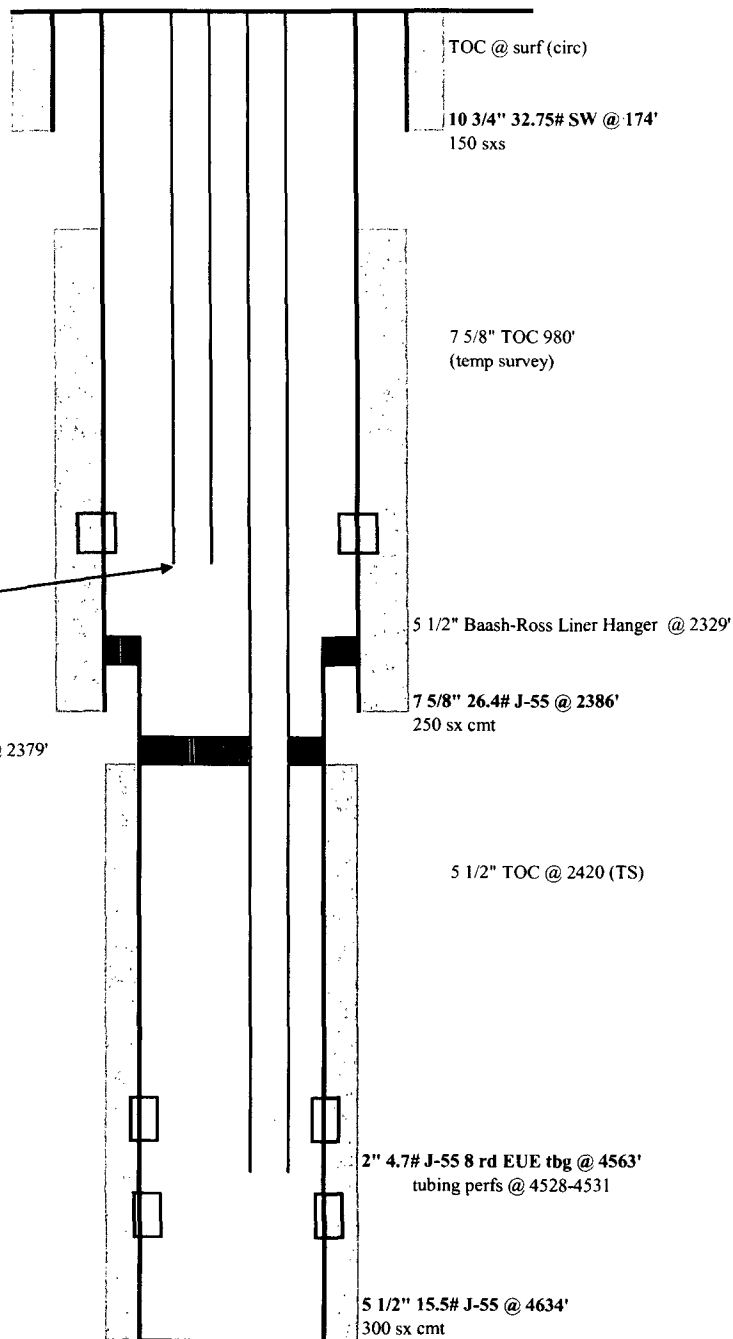
CLFH 3814

MEN 3848

PT LK 4403

## Mesaverde perforations:

4440' - 4602', frac'd w/ 60 klbs sand



PBTD: 4615'

TD: 4658'

updated: 11/27/06 JG