

Submit 3 Copies to Appropriate District Office
District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W Grand Ave., 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
May 27, 2004

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

WELL API NO.
30-045-24989

5. Indicate Type of Lease
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.
RCVD FEB 1 '08

7. Lease Name or Unit Agreement Name
OIL CON. DIV.
Bolack

8. Well Number
DIST. 3
1M

9. OGRID Number
778

10. Pool name or Wildcat
Basin DK Blanco MV & Otero Chacra

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

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

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

4. Well Location
Unit Letter I : 1715 feet from the SOUTH line and 1115 feet from the EAST line
Section 29 Township 28N Range 08W NMPM San Juan County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

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 ☐

OTHER: Tri-Mingling ☒

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Currently above mentioned well is permitted to Downhole Commingle per DHC 2711 AZ 11/16/2007. The work to DHC has not been initiated. It is now BP's intent to Tri-mingle said well by adding the Chacra (82329) to the existing MV & DK formation.

The Basin Dakota (71599) and the Blanco Mesaverde (72319) and the Chacra (82329) pools are pre-approved for Downhole Commingling per the NMOCD order R-11363. The working & overriding royalty interest owners in the proposed commingled pools are not the same therefore notification is required. (Sent Certified Return Receipt 01/10/08). Production is proposed to be allocated based on subtraction method using the projected future decline for production for the Blanco Mesaverde as well as Basin Dakota. That 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 is the future production decline estimates for the Blanco Mesaverde & the Basin Dakota.

The BLM has been notified of the DHC via form 3160-5 for lease SF - 080112. NMOCD Aztec has also been notified.

Commingling Production Downhole in the subject well from the proposed pools will 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. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Cherry Hlava TITLE Regulatory Analyst DATE 01/25/2008

Type or print name Cherry Hlava E-mail address: hlavacl@bp.com Telephone No. 281-366-4081

For State Use Only

APPROVED BY: [Signature] TITLE Deputy Oil & Gas Inspector DATE FEB 06 2008
Conditions of Approval (if any): District #3

CC: Aztec NMOCD

SJ Basin Well Work Procedure

Well Name: Bolack 1M – MV / DK dual well
Version: BLM
Date: January 21, 2008
Repair Type: Downhole Commingle Zones and PayAdd of Chacra

Objective:

1. Remove short string tubing (MV) and long string (DK) down to packer at 4800'w/ coil tubing unit.
 2. Run packer picker and mill out slips on packer at 4800' and recover packer, POH w/ rest of long string coil.
 3. Clean out wellbore, set bridge plug over the MV perforations at 4490'-4718',
 4. Perforate the Chacra and fracture stimulate down the casing,
 5. Flow test Chacra for commingle allocation,
 6. Drill out bridge plug and tri-mingle Chacra, MV and DK reland single string of tubing, and return to production.
-
1. POOH with 1-1/2" 1.523# coil tubing short tubing string set @ 4431'
 2. POOH with long string (1-1/2", 1.43#, 1.31" I.D.) ~4800'
 3. Mill slip elements on H.E.S. "BWB" packer (P/N 212 BWB 45100-A)
 4. POOH w/ Packer and rest of long coil tubing string (1820' coil below packer)
 5. C/O to PBTD
 6. Set CBP at 4300'.
 7. Perforate the Chacra (depth to be determined)
 8. Fracture stimulate the Chacra down the casing
 9. Clean out frac sand and flow test Chacra
 10. Drill out CBP
 11. TIH with 2-3/8" 4.7# J-55 tubing – land @ 6700'
 12. Return well to production.

Pertinent Information: Gas BTU content for this well is 1340 (MV production) and 1195 (DK); Venting and Flaring document needs to be followed if BTU content is above 950.

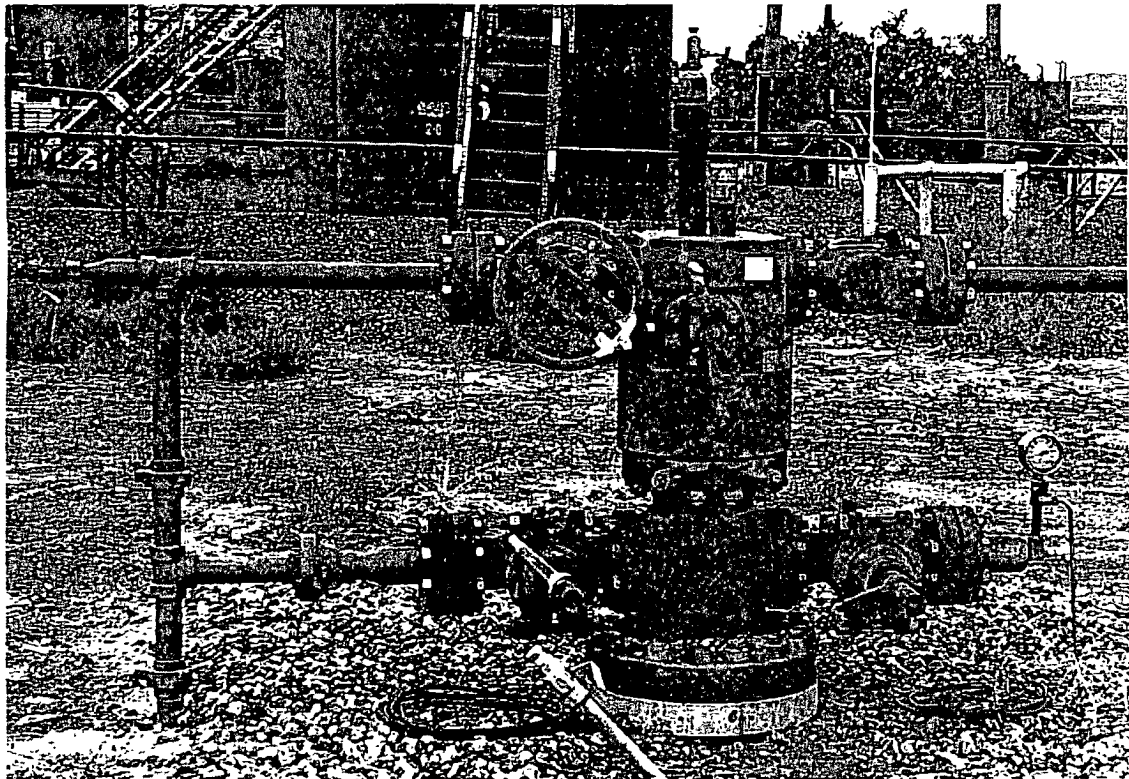
Reference:

NOP 7812-01 Normal Operating Procedure Under balanced Well Control Tripping Procedure.
NOP 7804-01 Normal Operating Procedure Wellbore Air Purge.
NOP 7803-01 Procedure for At Risk Well Locations.
NOP 7814 Procedure for Flowback Operations.

Location:	T28N-R8W-Sec29(I)	API #:	30-045-24989
County:	San Juan	FlacWell:	97973602-MV / 97973601-DK
State:	New Mexico	Lease Flac:	698472
Horizon:	Mesa Verde / Dakota	Engr:	Richard Pomrenke
		ph	(281) 366 5023
		mobile:	(281) 455-8449

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. Prior to rig up a full history should be obtained for the coil tubing unit. This should include the remaining coil tubing fatigue life, the position of all welds, and the fluid exposure history, all items should be documented for the reel.

Existing Wellhead

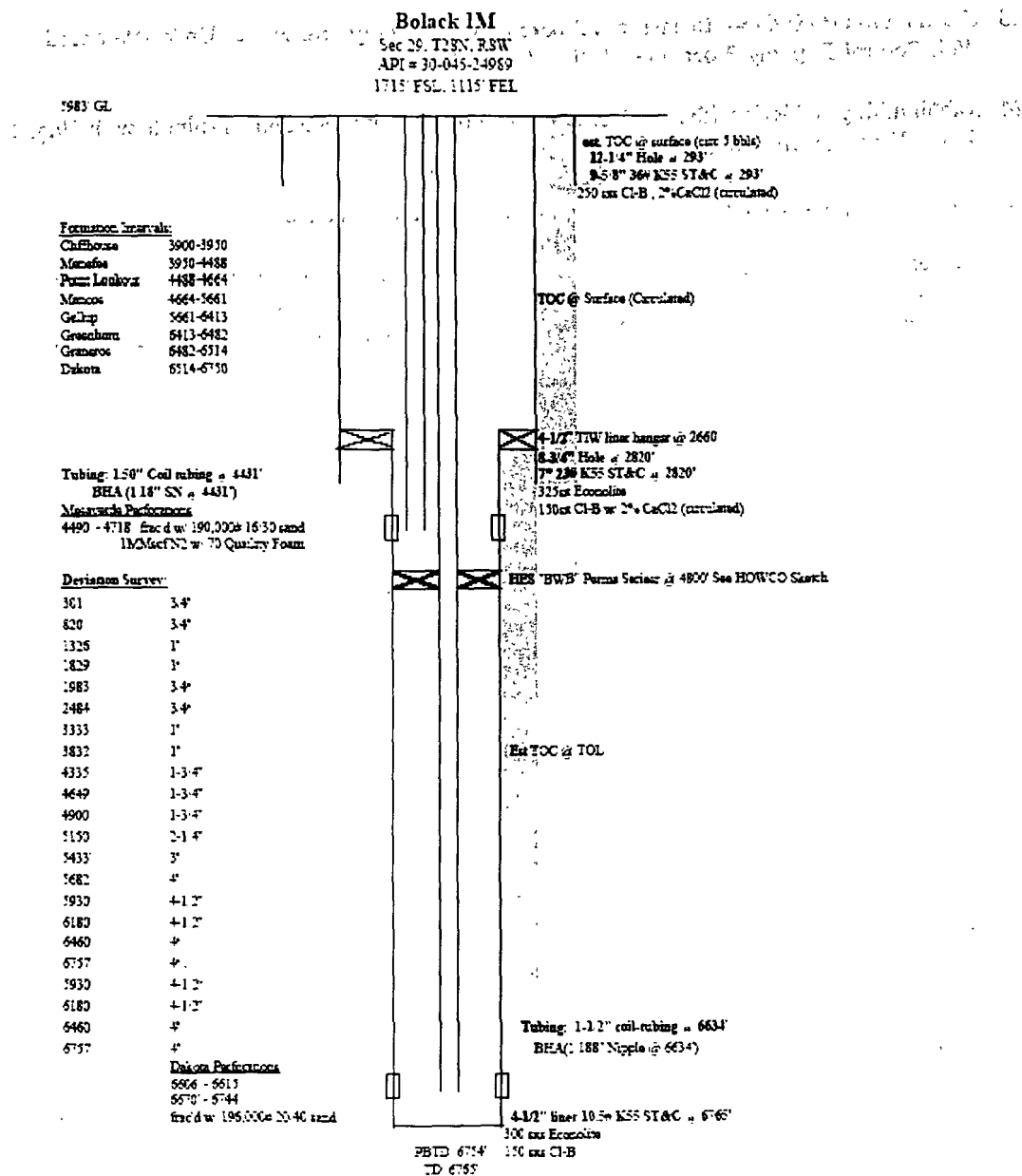
4. RU slickline unit. Pressure test lubricator and equipment. RIH and set plug set in nipple) for isolation in each tubing string. Long string 1.18" nipple at 6634' and short string nipple at 4431'. May need to seek dual barrier dispensation as we have 1.5" Coil tubing in both long and short strings.

5. Check and record tubing, casing, and bradenhead pressures. Ensure production casing has double casing valves installed. Double valve all casing strings.
6. MIRU workover rig. LOTO all necessary equipment including but not limited to: meter run, automation, separator, and water line.
7. Blow down well. Kill with 2% KCL water ONLY if necessary.
8. 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.**
9. Nipple down Wellhead. NU BOPs and diversion spool with 3" outlets and 3" pipe to the blow tank. Pressure test BOPs to 200 psi low side and 1100psig high side – maximum expected BHP of DK ~950psig. Monitor flowing casing pressure with gauge throughout workover.
10. Install stripping rubber, pull FMC coil tubing hanger connector for short string and shut pipe rams. Strip tubing hanger out of hole.
11. MI Coil Tubing unit. NU CT injector head – use rig draw works to hold injector head.
12. POOH using the CTU with 1-1/2" 1.43# tubing – short string currently set at 4432'.
13. Spool up long string using CTU - 4800' length of coil above packer. Note: please refer to Halliburton Completion Guide dated January 3, 1995 Item 5 HES "MSN Seal Units 2" long string into HES "BWB" Perma-Series Permanent Production Packer.
14. RIH w/ 2 3/8" work string and mill control guide for milling out slip elements on 4-1/2" H.E.S "BWB" Perma-Series Packer set at 4800'.
15. Retrieve packer and spool up rest of 1-1/2" 1.43# coil below packer using coil tubing rig – length of coil below packer is ~1820' and is currently landed @ 6634'. RD and move coil tubing rig off location.
16. RIH with bit and scraper for 4-1/2" casing. Check the distance between the top of the blind rams and the length of the bottomhole 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.
17. Run 4 1/2" bit and scraper to 4300'.
18. Set CBP at 4300', test 4 1/2" and 7" to 2500 psi.
19. Perforate the Chacra 3190'-3360' and Lewis 3510'-3660' using a 3 1/8" gun at 90 degree phasing
20. Fracture treat well in single stage as per detailed Schlumberger treatment procedure
21. Cleanout and flow well and run 8 hour test on Chacra and Lewis for allocation.

22. Drill CBP at 4300'
23. Cleanout to PBTD 6754' to ensure wellbore is clean and dry. Reference Under-Balanced Well Control Tripping Procedure. TOH w/ workstring.
24. Rabbit tubing and RIH with 2-3/8" production tubing. (With muleshoe, F-nipple with plug, 4 ft pup, X-nipple with plug).
25. Land 2-3/8" production tubing at ~6700'. Lock down tubing hanger.
26. 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 the surface. Check all casing string for pressure. **The operations of removal of BOP's and installation of wellhead will be performed under a dispensation for one (1) barrier on the backside.**
27. 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.
28. RU WL unit. Run gauge ring for 2-3/8" tubing. Broach out any tight spots noticed in WL trip. If tubing will not broach free and clean RD WL and pull tubing and replace bad joints. Pull plugs and set tubing stop for plunger. Communicate plunger equipment status to operations team personnel.
29. RD slickline unit.
30. Test well for air. Return well to production. RD and release all equipment. Remove all LOTO equipment.
31. Ensure all reports are loaded into DIMS. Print out summary of work and place in Wellfile. Discussion with production operations team about particulars of well when handing off the well file.

Richard W. Pomrenke

Senior Petroleum Engineer
Capital Deployment Well Work
San Juan South & North
WL 19.113
281-366-5023 office
281 455 8449 cell



History: Completed as DK only well in 6/1985
M/V payadd made dual well in 1994

updated 11/3/07 RWP

Coil Tubing Details.



HALLIBURTON COMPLETION GUIDE

COMPANY AMOCO Production Co.
ATTENTION OF: Mr. Rudy Candelaria

DATE: January 3, 1995

WELL: Bolack #1E
PERFORATIONS Mesa Verde: 4,288' - 4,718'
Dakota Basin: 6,606' - 6,675'

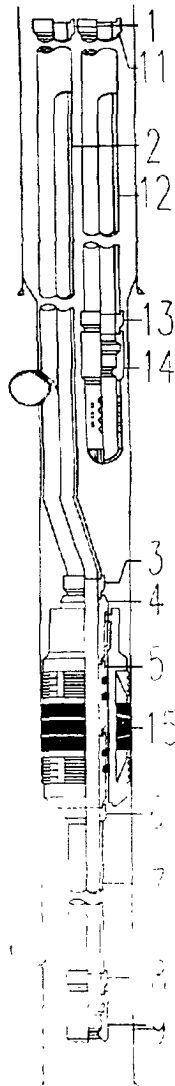
LOCATION: San Juan County
New Mexico

CASING: 7" 23 lb/ft - K-55
LINER: 4 1/2" 10.5 lb/ft - K-55
TUBING: 1 1/2" 1.43 lb/ft Coil Tubing - Long String.
1 1/2" 1.523 lb/ft Coil Tubing - Short String.

WT. On Pkr. - 1,500 lb - Long String

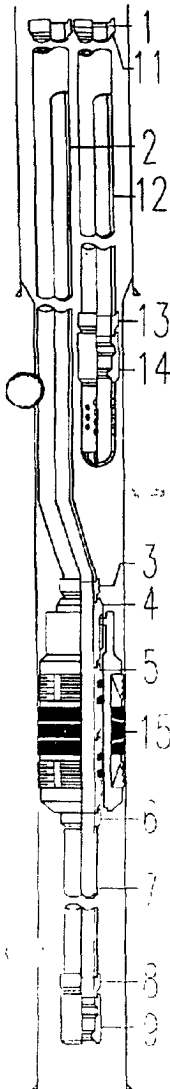
COMPLETION DATE: 12/30/94

COMPLETED BY: Dale Gunn - H.E.S. Farmington, New Mexico
H.E.S. SERVICE LOCATION: Farmington, New Mexico - Phone (505)-325-3544



ITEM	DESCRIPTION	I.D.	O.D.	LENGTH	DEPTH
LONG STRING					
	K. B. Elevation			10.00'	0.00'
1	FMC C/T Hanger Connector	1.31"	2.25"	0.67'	10.00'
2	1 1/2" 1.43 lb/ft Coil Tubing	1.31"	1.50"	4,798.00'	10.67'
3	H.E.S. 1 1/2" C/T Swivel Connector x 1 1/4" 'CS' pin	1.31"	3.00"	1.22'	4,808.67'
4	H.E.S. Straight Slot Locator with 1 1/4" 'CS' box	1.31"	2.92"	1.03'	4,809.89'
5	H.E.S. "MSN" Seal Units Qty Two (2)	1.31"	2.55"	2.00'	4,810.92'
6	H.E.S. Adapter 2 1/4-12 UN box x 1 1/2" C/T Connector	1.31"	2.50"	0.79'	4,812.92'
7	1 1/2" 1.43 lb/ft Coil Tubing	1.31"	1.50"	1,820.00'	4,813.71'
8	H.E.S. 1 1/2" C/T Connector x 1 1/4" 'CS' pin	1.31"	2.25"	0.64'	6,633.71'
9	PETRO-TECH 'PT' 1.25" C/T Landing Nipple with W/L Re-Entry Guide	1.188"	1.927"	1.04'	6,634.35'

Bottom of Long String Coil Tubing Assembly - 6,635.39'



ITEM	DESCRIPTION	I.D.	O.D.	LENGTH	DEPTH
SHORT STRING					

	K. B. Elevation			10.00'	0.00'
11	FMC C/T Hanger Connector	1.31"	2.25"	0.67'	10.00'
12	1 1/2" 1.523lb/ft Coil Tubing	1.31"	1.296"	4,420.00'	10.67'
13	H.E.S. 1 1/2" C/T Connector x 1 1/4" 'CS' pin	1.31"	2.25"	0.64'	4,430.67'
14	PETRO-TECH 'PT' 1 25" C/T Landing Nipple with Perforated Production Tube and Bull Nose Catcher on Bottom	1.188"	1.927"	2.02'	4,431.31'
<u>Bottom of Short String Tubing Assembly</u>					<u>4,433.33'</u>
15	H.E.S. "BWB" Perma- Series Permanent Production Packer for 4 1/2" 9.5 - 12.6 lb/ft Casing P/N 212 BWB 45100-A	2.55"	3.79"	2.40'	4,800.00'

Bottom of Permanent Packer Assembly 4,802.40'

Drawn by: Ray Chavers - Denver, CO

District I

1625 N French Dr, Hobbs, NM 88240
Phone (505) 393-6161 Fax (505) 393-0720

District II

1301 W Grand Ave, Artesia, NM 88210
Phone (505) 748-1283 Fax (505) 748-9720

District III

1000 Rio Brazos Rd, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170

District IV

1220 S St Francis Dr, Santa Fe, NM 87505
Phone (505) 476-3470 Fax (505) 476-3462

State of New Mexico

Form C-102
Permit 51714

Energy, Minerals and Natural Resources**Oil Conservation Division****1220 S. St Francis Dr.****Santa Fe, NM 87505****WELL LOCATION AND ACREAGE DEDICATION PLAT**

1 API Number <i>30-045-24989</i>	2 Pool Code 82329	3 Pool Name OTERO CHACRA (GAS)
4 Property Code 323	5 Property Name BOLACK	6 Well No 001M
7 OGRID No 778	8 Operator Name BP AMERICA PRODUCTION COMPANY	9 Elevation

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	29	28N	08W		1715	S	1115	E	SAN JUAN

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12 Dedicated Acres 160.00		13 Joint or Infill		14 Consolidation Code		15 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

	OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> E-Signed By: <i>Cherry Hlava</i> Title: <i>Regulatory Analyst</i> Date: <i>1-7-08</i>
	SURVEYOR CERTIFICATION <i>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.</i> Surveyed By: Fred Kerr Date of Survey: 8/8/1980 Certificate Number: 3950

All distances must be from the outer boundaries of the Section.

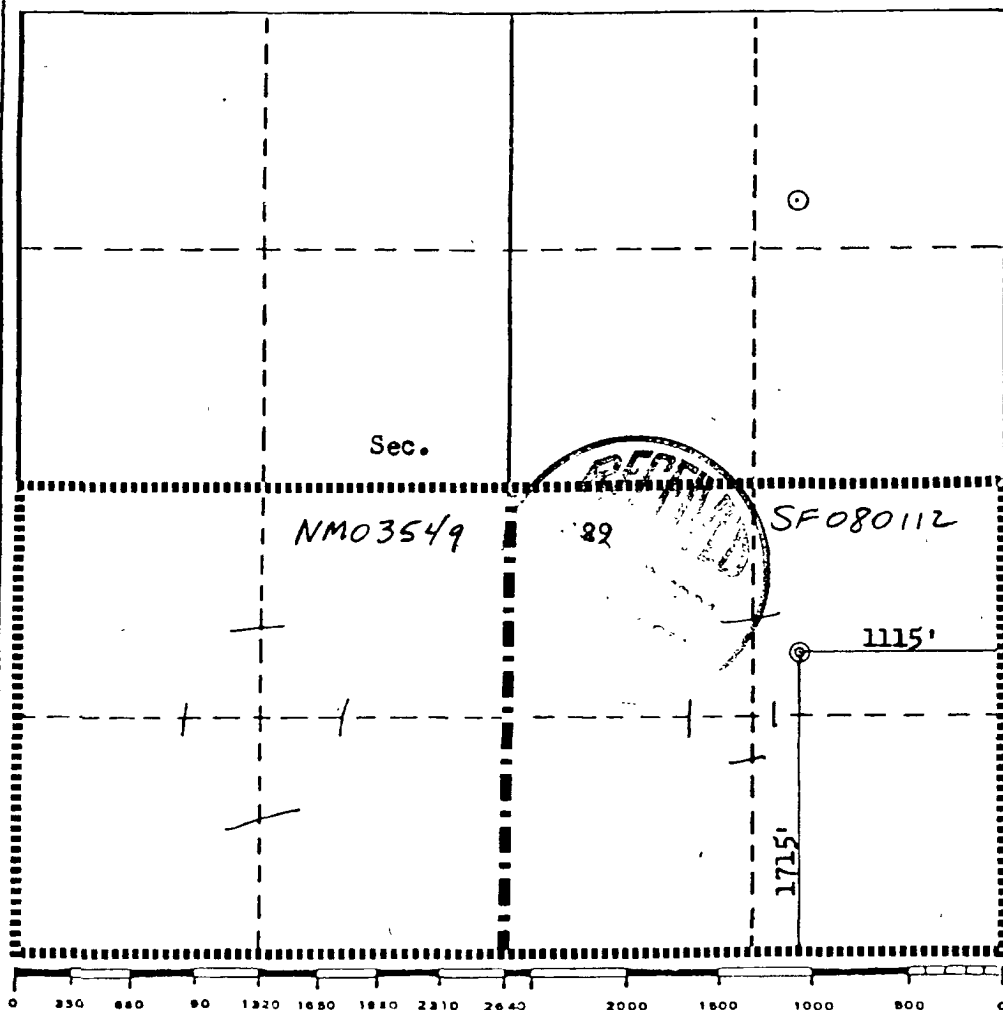
Operator TENNECO OIL COMPANY			Lease BOLACK			Well No. 1E 1M		
Unit Letter I	Section 29	Township 28N	Range 8W	County San Juan				
Actual Footage Location of Well: 1715 feet from the South line and 1115 feet from the East line								
Ground Level Elev. 5901	Producing Formation Dakota		Pool Basin Dakota			Dedicated Acreage: 320 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

R. A. Misker
Name

Senior Production Analyst
Position

Tenneco Oil Company
Company

March 3, 1981
Date

Date

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 knowledge and belief.

Date Surveyed

August 8, 1980

Registered Professional Engineer and Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certified No. 3950
B. KERR, JR.

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1060 Rio Hondo Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT 30-045-24989

API Number 30-045-24989		Pool Code 72319		Pool Name Blanco Mesa Verde			
Property Code 000323		Property Name Bolack				Well Number #1	
OGRID No. 000778		Operator Name Amoco Production Company				Elevation 1115	
10 Surface Location							
UL or lot no. I	Section 29	Township 28N	Range 8W	Lot Idn	Feet from lbr 1715	North/South line FSL	Feet from ll 1115
11 Bottom Hole Location If Different From Surfa							
UL or lot no.	Section	Township	Range	Lot Idn	Feet from lbr	North/South line	Feet from
Dedicated Acres 320		Joint or Infill Y		Consolidation Code		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

<p>16</p> <p>Section 29</p> <p>1115</p> <p>1715</p>				<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature A. Wayne Branam</p> <p>Printed Name A. WAYNE BRANAM</p> <p>Title Business Analyst</p> <p>Date 01 18 95</p>			
				<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>088880</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor: ON File</p> <p>3950</p> <p>Certificate Number</p>			

Bolack 1M								
Dakota Formation								
API # 30-045-24989								
Starting 2/96 thru 5/09								
Exponential Decline								
Qi = 29.7 mcf/d		1-Jun-2007						
Qf = 26.9 mcf/d								
D = 4.78% per year								
Starting 6/09 thru 2/27								
Exponential Decline								
Qi = 26.9 mcf/d								
Qf = 5.1 mcf/d								
D = 9.00% per year								
	Gas Rate mcf/d	Gas Volume MMSCF		Gas Rate mcf/d	Gas Volume MMSCF		Gas Rate mcf/d	Gas Volume MMSCF
Date			Date			Date		
Jan-07	29.65	0.92	Jul-09	26.59	0.82	Jan-12	20.94	0.65
Feb-07	31.43	0.88	Aug-09	26.37	0.82	Feb-12	20.78	0.60
Mar-07	29.19	0.91	Sep-09	26.17	0.79	Mar-12	20.62	0.64
Apr-07	27.87	0.84	Oct-09	25.96	0.81	Apr-12	20.45	0.61
May-07	26.94	0.84	Nov-09	25.76	0.77	May-12	20.29	0.63
Jun-07	29.61	0.89	Dec-09	25.56	0.79	Jun-12	20.14	0.60
Jul-07	29.49	0.91	Jan-10	25.35	0.79	Jul-12	19.98	0.62
Aug-07	29.37	0.91	Feb-10	25.16	0.70	Aug-12	19.82	0.61
Sep-07	29.25	0.88	Mar-10	24.97	0.77	Sep-12	19.66	0.59
Oct-07	29.13	0.90	Apr-10	24.77	0.74	Oct-12	19.51	0.61
Nov-07	29.01	0.87	May-10	24.58	0.76	Nov-12	19.36	0.58
Dec-07	28.89	0.90	Jun-10	24.39	0.73	Dec-12	19.21	0.60
Jan-08	28.69	0.89	Jul-10	24.19	0.75	Jan-13	19.10	0.59
Feb-08	28.58	0.83	Aug-10	24.00	0.74	Feb-13	18.96	0.53
Mar-08	28.46	0.88	Sep-10	23.81	0.71	Mar-13	18.82	0.58
Apr-08	28.35	0.85	Oct-10	23.63	0.73	Apr-13	18.67	0.56
May-08	28.23	0.88	Nov-10	23.44	0.70	May-13	18.52	0.57
Jun-08	28.12	0.84	Dec-10	23.26	0.72	Jun-13	18.38	0.55
Jul-08	28.00	0.87	Jan-11	23.07	0.72	Jul-13	18.23	0.57
Aug-08	27.89	0.86	Feb-11	22.90	0.64	Aug-13	18.09	0.56
Sep-08	27.77	0.83	Mar-11	22.72	0.70	Sep-13	17.94	0.54
Oct-08	27.66	0.86	Apr-11	22.54	0.68	Oct-13	17.80	0.55
Nov-08	27.55	0.83	May-11	22.37	0.69	Nov-13	17.66	0.53
Dec-08	27.43	0.85	Jun-11	22.19	0.67	Dec-13	17.53	0.54
Jan-09	27.39	0.85	Jul-11	22.02	0.68	Jan-14	17.39	0.54
Feb-09	27.29	0.76	Aug-11	21.84	0.68	Feb-14	17.25	0.48
Mar-09	27.18	0.84	Sep-11	21.67	0.65	Mar-14	17.12	0.53
Apr-09	27.07	0.81	Oct-11	21.50	0.67	Apr-14	16.99	0.51
May-09	26.96	0.84	Nov-11	21.33	0.64	May-14	16.85	0.52
Jun-09	26.80	0.80	Dec-11	21.16	0.66	Jun-14	16.72	0.50

Bolack 1M								
MesaVerde Formation								
API # 30-045-24989								
Starting 2/96 thru 5/09								
Exponential Decline								
Qi = 57.534 mcf/d		1-Jun-2007						
Qf = 52.9781 mcf/d								
D = 4.041% per yr								
Starting 6/09 thru 2/27								
Exponential Decline								
Qi = 53.0 mcf/d								
Qf = 10.0 mcf/d								
D = 9.00% per year								
Date	Gas Rate mcf/d	Gas Volume MMSCF	Date	Gas Rate mcf/d	Gas Volume MMSCF	Date	Gas Rate mcf/d	Gas Volume MMSCF
Jan-07	83.36	2.58	Oct-09	51.16	1.59	Jul-12	39.37	1.22
Feb-07	71.04	1.99	Nov-09	50.76	1.52	Aug-12	39.06	1.21
Mar-07	63.61	1.97	Dec-09	50.36	1.56	Sep-12	38.75	1.16
Apr-07	60.33	1.81	Jan-10	49.96	1.55	Oct-12	38.45	1.19
May-07	26.29	0.82	Feb-10	49.58	1.39	Nov-12	38.15	1.14
Jun-07	57.48	1.72	Mar-10	49.21	1.53	Dec-12	37.85	1.17
Jul-07	57.28	1.78	Apr-10	48.82	1.47	Jan-13	37.65	1.17
Aug-07	57.08	1.77	May-10	48.44	1.50	Feb-13	37.36	1.05
Sep-07	56.88	1.71	Jun-10	48.06	1.44	Mar-13	37.08	1.15
Oct-07	56.69	1.76	Jul-10	47.68	1.48	Apr-13	36.79	1.10
Nov-07	56.49	1.70	Aug-10	47.30	1.47	May-13	36.50	1.13
Dec-07	56.30	1.75	Sep-10	46.93	1.41	Jun-13	36.21	1.09
Jan-08	55.95	1.73	Oct-10	46.56	1.44	Jul-13	35.93	1.11
Feb-08	55.76	1.62	Nov-10	46.19	1.39	Aug-13	35.64	1.11
Mar-08	55.57	1.72	Dec-10	45.83	1.42	Sep-13	35.36	1.06
Apr-08	55.38	1.66	Jan-11	45.47	1.41	Oct-13	35.09	1.09
May-08	55.19	1.71	Feb-11	45.12	1.26	Nov-13	34.81	1.04
Jun-08	55.00	1.65	Mar-11	44.78	1.39	Dec-13	34.54	1.07
Jul-08	54.81	1.70	Apr-11	44.43	1.33	Jan-14	34.26	1.06
Aug-08	54.62	1.69	May-11	44.08	1.37	Feb-14	34.00	0.95
Sep-08	54.43	1.63	Jun-11	43.73	1.31	Mar-14	33.74	1.05
Oct-08	54.25	1.68	Jul-11	43.39	1.35	Apr-14	33.48	1.00
Nov-08	54.06	1.62	Aug-11	43.04	1.33	May-14	33.22	1.03
Dec-08	53.87	1.67	Sep-11	42.70	1.28	Jun-14	32.96	0.99
Jan-09	53.83	1.67	Oct-11	42.37	1.31	Jul-14	32.70	1.01
Feb-09	53.65	1.50	Nov-11	42.04	1.26	Aug-14	32.44	1.01
Mar-09	53.48	1.66	Dec-11	41.71	1.29	Sep-14	32.18	0.97
Apr-09	53.29	1.60	Jan-12	41.26	1.28	Oct-14	31.93	0.99
May-09	53.11	1.65	Feb-12	40.94	1.19	Nov-14	31.68	0.95
Jun-09	52.81	1.58	Mar-12	40.63	1.26	Dec-14	31.43	0.97
Jul-09	52.40	1.62	Apr-12	40.31	1.21	Jan-15	31.18	0.97
Aug-09	51.98	1.61	May-12	39.99	1.24	Feb-15	30.94	0.87
Sep-09	51.57	1.55	Jun-12	39.68	1.19	Mar-15	30.71	0.95