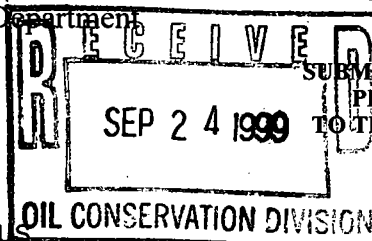


District I - (505) 393-6161
1625 N. French Dr
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

1242
Form C-142
Revised 06/99



APPLICATION FOR NEW WELL STATUS

I. Operator and Well

Operator name & address Amoco Production Company P.O. Box 3092 Houston, TX 77253						OGRID Number 000778		
Contact Party Mary Corley						Phone 281-366-4491		
Property Name Kernaghan B				Well Number 3B		API Number 30-045-29719		
UL 0	Section 29	Township 31N	Range 8W	Feet From The 1160'	North/South Line South	Feet From The 1890'	East/West Line East	County San Juan

II. Date/Time Information

Spud Date February 9 1999	Spud Time 8:30 pm	Date Completed April 2 1999	Pool Blanco Mesaverde
-------------------------------------	-----------------------------	---------------------------------------	---------------------------------

III. Attach copies of Form C-103 or Federal Form 3160-5 showing date/time of drilling commenced and Form C-105 or Federal Form 3160-4 showing well was completed as a producer.

IV. Attach a list of all working interest owners with their percentage interests.

V. AFFIDAVIT:

State of <u>Texas</u>)		
) ss.		
County of <u>Harris</u>)		
<u>Mary Corley</u> , being first duly sworn, upon oath states:		
1. I am the Operator, or authorized representative of the Operator, of the above-referenced well.		
2. To the best of my knowledge, this application is complete and correct.		
Signature <u>Mary Corley</u>	Title <u>Senior Business Analyst</u>	Date <u>September 21 1999</u>
SUBSCRIBED AND SWORN TO before me this <u>23</u> day of <u>September</u> , <u>1999</u> .		
		<u>Anne Evans</u> Notary Public
My Commission expires: <u>March 21 2001</u>		

FOR OIL CONSERVATION DIVISION USE ONLY:

VI. CERTIFICATION OF APPROVAL:

This Application is hereby approved and the above-referenced well is designated a New Well. By copy hereof, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval.

Signature District Supervisor <u>Mark Bohlen</u>	OCD District <u>P.E. Spec.</u>	Date SEP 28 1999
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VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT: SEP 28 1999

NOTICE: The operator must notify all working interest owners of this New Well certification.

PV 2V2006631429

**Working Interest Owners
Kernaghan B 3B**

Conoco Inc. 50%
Attn: Isabel Barron
600 North Dairy Ashford - DU-3076
Houston, TX 77079-1175

Amoco Production Company 50%
P.O. Box 3092
Houston, TX 77253

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

RECEIVED
BLM

99 MAR -5

5. Well Designation and Serial No.

SF-078387-A

6. If Indian, Allottee or Tribe Name

AM 11:28

7. If Unit or CA, Agreement Designation

070 FARMINGTON, NM

8. Well Name and No.

KERNAGHAN B

3B

9. API Well No.

30-045-29719

10. Field and Pool, or Exploratory Area

BLANCO MESAVERDE

11. County or Parish, State

SAN JUAN

NEW MEXICO

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

2. Name of Operator
AMOCO PRODUCTION COMPANY
Attention: MARY CORLEY

3. Address and Telephone No.
P.O. BOX 3092 HOUSTON, TX 77253
281-366-4491

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1160' FSL 1890' FEL Sec. 29 T 31N R 8W UNIT O

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

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other SPUD & SET

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

MIRU Drilling rig on 2/9/99. Spud a 12 1/4" surface hole. Drill to 290'. Set 9 5/8" 36# surface CSG to 278'. CMT w/297 SXS CLS B CMT. Circ out 20 BBLS of good CMT to surface. Pressure test to 1200 PSI.

Drilled a 8 3/4" hole from 290' to 3420' & set 7" 20 & 23# intermediate CSG to a depth of 3368'. Changed CMT job from single to two stage job after consultation with Jim Lovato of BLM & Ernie Busch of NMOCD. CMT 2nd stage first by dropping opening bomb & circ through DV tool. CMT w/290 SXS CLS B CMT. Displace & close DV tool & held good. Pressure test to 1200 PSI. Held OK. TIH set by DP a CMT retainer @ 3255' & CMT stage one w/ 150 SXS CLS B CMT. Displace to CMT retainer & string out. Good lift pressure & appears CMT did climb. WOC. Drill out retainer & float shoe dry hole up & drill production hole with air.

Drill from 3420' to TD @ 5908'. Set 4 1/2" 10.5# production liner - TOL @ 3170'; BOL @ 5908'. CMT w/303 SXS CLS B CMT. Circ out 23 BBLS good CMT. Pressure test to 3000 PSI.

Drilling rig released 23:59 hrs. on 2/18/99.

Need CMT Tools Behind 7" to CSG hole 7" casing.

14. I hereby certify that the foregoing is true and correct

Signed

Mary Corley

Title

SR BUSINESS ANALYST

Date

03-02-1999

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

ACCEPTED FOR RECORD

Title 18 U.S.C. Section 1001, makes 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.

* See Instructions on Reverse Side

MAR 08 1999

OPERATOR

FARMINGTON FIELD OFFICE
BY *Sam*

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT(See other in-
structions on
reverse side)FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*BLM

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>		59 APR 7 AM 9:51	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/>		070 FARMINGTON, NM	
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY		Attention: MARY CORLEY	
3. ADDRESS AND TELEPHONE NO. P.O. BOX 3092 HOUSTON, TX		281-366-4491	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1160' FSL 1890' FEL At top prod. interval reported below At total depth			
14. PERMIT NO.		DATE ISSUED	
15. DATE SPUDDED 02/09/1999		15. DATE T.D. REACHED 02/18/1999	
17. DATE COMPL. (Ready to prod.) 04/02/1999		18. ELEVATIONS (DF, RKB, RT, GR, ETC.) 6368' GR	
20. TOTAL DEPTH, MD & TVD 5908		21. PLUG, BACK T.D., MD & TVD 5821'	
22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY	
24. ROTARY TOOLS YES		25. CABLE TOOLS NO	
PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* MESAVARDE 5084' - 5600'			
25. WAS DIRECTIONAL SURVEY MADE NO			
26. TYPE ELECTRIC AND OTHER LOGS RUN CBL TDT			
27. WAS WELL CORED N			
28. CASING RECORD (Report all strings set in well)			
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
9 5/8" K-55	36#	278'	12 1/4"
7" K-55	20 & 23#	3368'	8 3/4"
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
4 1/2"	3170'	5908'	303 SXS
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 3/8"	5146'		
PERFORATION RECORD (Interval, size, and number) 5084 - 5600'; 1 JSPF. 300 INCH DIAMETE. TOTAL 32 SHOTS (SEE SUBSEQUENT REPORT FOR INDIVIDUAL PERFS.)			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
5441'	5600'	24000 GAL. WTR; 70% QUALITY FOAM & 82000# 16/30 ARIZONA SAND	
5441'	5600'	24520 GAL. WTR; 70% QUALITY FOAM & 74084# 16/30 ARIZONA SAND	
33.* PRODUCTION			
DATE FIRST PRODUCTION 04/02/1999	PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) F		WELL STATUS (Producing or shut-in) SI
DATE OF TEST 04/02/1999	HOURS TESTED 12	CHOKE SIZE 3/4"	PROD'N FOR TEST PERIOD
FLOW TUBING PRESS 110#	CASING PRESSURE 300#	CALCULATED 24-HOUR RATE	OIL - BBL. TRACE
GAS - MCF. 1950		WATER - BBL. TRACE	
OIL GRAVITY - API (CORR.)			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD			
35. LIST OF ATTACHMENTS			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <i>Mary Corley</i>		TITLE SR. BUSINESS ANALYST	
DATE 04-06-1999		DATE 04-06-1999	

* (See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes 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

RCD 4/19/99 MC

ACCEPTED FOR RECORD
DATE 04-06-1999

APR 08 1999

FARMINGTON FIELD OFFICE
BY *Sm*

KERNAGHAN B # 3B

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	2026					
Kirtland	2122					
Fruitland Coal	2748					
Pictured Cliffs	3170					
Lewis Shale	3370					
Cliff House	5080					
Menefee	5148					
Point Lookout	5432					
Mancos	5800					

KERNAGHAN B # 3B
COMPLETION SUBSEQUENT REPORT
4/6/99

2/20/99 MIRUSU & ran TDT Logs from bottom to surface for perforating depth control.

2/23/99 NU TBG head and pressure test casing to 3000# for 30 min. Held ok.

3/5/99 MIRUSU & ran CBL log from liner top (3170') to Surface. Good CMT from 400' to 2470' behind 7" CSG. CSG held when tested to 3000#. RU & perf Mesaverde @ the following intervals with 1 JSPF, .300 inch diameter, total 32 shots

5600'	5548'	5506'	5462'	5328'	5252'	5203'	5127'
5586'	5538'	5500'	5425'	5322'	5242'	5188'	5113'
5571'	5531'	5488'	5441'	5268'	5221'	5180'	5096'
5564'	5524'	5477'	5336'	5260'	5216'	5134'	5084'

3/15/99 RU & breakdown formation w/130 ball sealers - Formation broke @ 2200#. Average injection rate 5 BPM. Had complete ball off. MIRUSU & ND frac valve & ND BOP. SDFN.

3/16/99 TIH w/ ret. BP, PKR & TBG. Set BP @ 5630'; set PKR @ 5405'. Pump into Point Lookout zone (5441' - 5600'). Est rate of 1.5 BPM @ 450#. Swab well to drop fluid level to seating nipple. RU slickline & set TBG plug. Shutin well overnight for pressure buildup.

3/17/99 Pull TBG plug & unseat PKR & Ret BP. Reset Ret. BP @ 5405' & reset PKR @ 5170'. Pump down TBG an est. rate of 3.3 BPM @ 750#. RU & swab down to & reset TBG plug to test the Menefee zone (5180' - 5336'). Shutin well overnight for pressure buildup.

3/18/99 Pull TBG plug & unseat PKR & Ret BP. Reset Ret. BP @ 5160' & reset PKR @ 5406'. Pump down TBG an est. rate of 2.7 BPM @ 8750#. RU & swab down to & reset TBG plug to test the Cliffhouse zone (5084' - 5134'). Shutin well overnight for pressure buildup.

3/19/99 Pull TBG plug & Ret. bombs. Unseat PKR & Ret BP & TOH. TIH w/PKR & TBG & set PKR @ 5370'. RU & breakdown Point Lookout w/500 gallons 7 1/2% acid & dropped 25 ball sealers. Est. rate of 1200# @ 6.5 BPM. Finished @ 900# @ 6.5 BPM. Had complete ball off @ 3000#. Unseat PKR & TIH knocking balls off perfs. PU & reset PKR.

3/20/99 RU & set pressure bombs. RU & swab down to changeover. RU to set TBG plug. Unable to get plug thru heavy duty changeover from 2 7/8" to 2 3/8". SI well @ surface.

3/22/99 RU slickline & pull downhole pressure gauges. RU & frac Point Lookout w/24000 gallons of WTR & 70% quality foam & 82000# of 16/30 Arizona sand. RU & start flow back with 1/4" choke & watchman, upsize to 1/2", then 3/4" choke. FTP 110#. Flowed well overnight.

KERNAGHAN B #3B
COMPLETION SUBSEQUENT REPORT
4/6/99

3/23/99 Unseat PKR & TOH. LD frac string & RU & TIH w/CIBP & PKR. Set BP @ 5390'. PU & set PKR @ 5370' to pressure test. Held OK. Start TOH w/TBG & PKR.

3/24/99 Finish TOH w/TBG & PKR. RU tree saver. RU & Frac Point Lookout with 24520 gallons of WTR & 70% quality foam & 74084# of 16/30 Arizona sand. ISIP 1337#. RU to flowback Frac w/watchman & 1/4" choke, FCP 500#. Upsize choke to 1/2" - FCP 300#. Upsize to 3/4" choke - FCP 110#.

3/25/99 Flowed well overnight with watchman & upsized to 3/4" choke - FCP 110#. Flow well overnight with 3/4" choke - FCP 83#.

3/26/99 Flowed well overnight with watchman & 3/4" choke - FCP 97#. TIH w/mill & tag fill @ 5200'. Clean out fill to 5390'. Drill up CIBP @ 5390'. Circ clean. TIH to bottom & tag fill @ 5500' & clean up sand to 5728'. PU TBG above liner top & SI for weekend.

3/29/99 Well SI over weekend. SICP 490#. Blow well down. TIH & tag fill @ 5698'. Clean out to 5761'. PU & flow well for 1 hr. & tagged 5' fill. Cleanout & PU to flow well w/watchman overnight.

3/30/99 TIH w/mill & TBG. TIH w/production TBG. Tagged fill @ 5726'. Cleanout fill to 5771'. Pull up to liner & flow well overnight.

3/31/99 TIH & Tag 0 fill. PU & land TBG @ 5146'. ND BOP 7 NU wellhead. Pull TBG plug. Rig released @ 1700 hrs 3/31/99.

4/1/99 Open well to check for flow. Ok. RU & set gauges. SI well overnight.

4/2/99 Prepare for Del test. SICP 430#, SITP 420#. Flow well up TBG for 12 hrs. for Del test. Gas 1,950 MCF, trace oil, trace water, FFCP 300#, FFTP 110# on 3/4" choke. SI well @ 2200 hrs.

TABULATION OF DEVIATION TEST

AMOCO PRODUCTION COMPANY

DEPTH	DEVIATION	DEPTH	DEVIATION
290'	0.250		
786'	0.750		
1307'	1.000		
1806'	1.500		
23018'	1.000		
4373	1.250		
4933	1.000		
546	0.750		
5901	2.000		

AFFIDAVIT

THIS IS TO CERTIFY that to the best of my knowledge, the above tabulation details the deviation test taken on AMOCO PRODUCTION COMPANY'S:

Kernaghan B #3B

1160' FSL & 1890' FEL; Sec. 29 T31N R8W

San Juan County, New Mexico

Signed:

Title:

Mary Corley
SR. Business Analyst

THE STATE OF TEXAS)

) SS.

COUNTY OF HARRIS)

BEFORE ME, the undersigned authority, on this day personally appeared MARY CORLEY known to me to be SR. Business Analyst for Amoco Production company and to be the person who name is subscribed to the above statement, who being by me dully sworn on oath, states that she has knowle of the facts stated herein and that said statement is true and correct.

SUBSCRIBED AND SWORN to before me, a Notary Public in and for said County and State this 6th day of April, 19 99.

Anne Evans

Notary Public

My Commission Expires:

3-21-2001

