Form 3160-4
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMSF - 078049

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☒ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator: AMOCO PRODUCTION COMPANY
Contact: MARY CORLEY
E-Mail: corleyml@bp.com

8. Lease Name and Well No.: HUGHES A 5E

3. Address: P.O. BOX 3092, HOUSTON, TX 77253
3a. Phone No. (include area code): Ph: 281.366.4491 Fx: 281.366.0700

9. API Well No.: 30-045-25460

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: NWSE Lot J 1540FSL 1560FEL
At top prod interval reported below
At total depth

10. Field and Pool, or Exploratory: BLANCO MESAVERDE

11. Sec., T., R., M., or Block and Survey or Area: Sec 33 T29N R8W Mer NMP

12. County or Parish: SAN JUAN
13. State: NM

14. Date Spudded
15. Date T.D. Reached
16. Date Completed ☐ D & A ☐ Ready to Prod.
17. Elevations (DF, KB, RT, GL)*: 6512 GL

18. Total Depth: MD 7590 TVD
19. Plug Back T.D.: MD 7510 TVD
20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each): CBL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☒ No ☐ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Casing Top*	Amount Pulled
12.250	9.675	36.000		315					
8.750	7.000	23.000		3706					
6.000	4.500	11.000	3548	7590					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7285							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	MESAVERDE	4641	5434	4641 TO 5434	3.130	70	
B)							
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
4641 TO 5017	80,000 LBS 16/30 ARIZONA SAND & 70% FOAM & N2
5092 TO 5434	80,000 LBS 16/30 ARIZONA SAND & 70% FOAM & N2(2)

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
		12	→	1.0	600.0	1.0			FLOWS FROM WELL
Choke Size	**Tbg. Press. Flwg. SI**	**Csg. Press.**	**24 Hr. Rate**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas:Oil Ratio**	**Well Status**	
		220.0	→					PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	**Tbg. Press. Flwg. SI**	**Csg. Press.**	**24 Hr. Rate**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas:Oil Ratio**	**Well Status**	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #6157 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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ACCEPTED FOR RECORD
SEP 21 2001
FARMINGTON FIELD OFFICE
BY

NMOCD

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
MESAVERDE	4641	5434		OJO ALAMO	2050
				KIRTLAND	2175
				FRUITLAND	2600
				PICTURED CLIFFS	~~3040~~ 3240
				LEWIS	3110
				CLIFFHOUSE	4680
				MENEFEE	4786
				POINT LOOKOUT	5250
				MANCOS	5450
				GALLUP	6464
				GRANEROS	7252
				DAKOTA	7294

32. Additional remarks (include plugging procedure):
Production is now commingled downhole within the Blanco Mesaverde and the Basin Dakota Pools.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7. Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #6157 Verified by the BLM Well Information System for AMOCO PRODUCTION COMPANY.
Sent to the Farmington. Committed to AFMSS for processing by Lucy Bee on 08/06/2001 ()

Name *(please print)* MARY CORLEY Title AUTHORIZED REPRESENTATIVE

Signature _____ Date _____

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 fradulent statements or representations as to any matter within its jurisdiction.

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HUGHES A 5E
RECOMPLETION & DOWNHOLE COMMINGLING SUBSEQUENT REPORT
08/02/2001

07/20/2001 MIRUSU @ 10:00 hrs. NDWH & NU BOP's. Unseat TBG hanger. TOH W/TBG. SDFN.

07/23/2001 TIH & set a CIBP @ 5550'. Load hole w/2% KcL water. Pressure tested CSG to 2500#. Held Ok. RU & run CBL. Had good bond. RU & Perf Point Lookout & Lower Menefee: 3.125 inch diameter

Lower Menefee perforations, 2 JSPF, 120° phasing (5 shots/ 10 holes):
5092', 5101', 5106', 5181', 5228'
Upper Point Lookout Perforations, 1 JSPF, 120° phasing (15 shots/ 15 holes):
5255', 5259', 5267', 5273', 5279', 5283', 5290', 5300', 5310', 5320', 5330', 5344', 5353', 5362', 5369'
Lower Point Lookout Perforations, 2 JSPF, 120° phasing (7 shots/ 14 holes):
5379', 5386', 5400', 5410', 5420', 5428', 5434'

07/24/2001 RU & Frac w/80,000# of 16/30 Arizona Sand & 70% Foam & N2. RU & TIH w/CIBP & set @ 5030'. RU & Perf Lower Lewis, Cliffhouse & Menefee: 3.125 inch diameter

Lower Lewis Perforations, 2 JSPF, 120° phasing (4 shots/ 8 holes) :
4641', 4652', 4661', 4672'
Cliffhouse perforations, 1 JSPF 120° phasing (15 shots/ 15 holes):
4685', 4692', 4696', 4703', 4709', 4714', 4722', 4726', 4734', 4737', 4750', 4754', 4758', 4774', 4777'
Menefee Perforations, 2 JSPF, 120° phasing (9 shots/ 18 holes) :
4815', 4822', 4850', 4858', 4921', 4944', 4984', 5011', 5017'

RU & Frac w/80,000# of 16/30 Arizona Sand & 70% Foam. RU & Flow back well thru $\frac{1}{4}$" choke all night.

07/25/2001 Flowback well thru $\frac{1}{4}$" choke. At 10:00 hrs upsized to $\frac{1}{2}$" choke. @ 15:00 hrs Upsized to $\frac{3}{4}$" choke & flowback overnight.

07/26/2001 TIH & tag fill @ 4890'. Circ hole clean to top of CIBP set @ 5030'. DO CIBP. PU above liner top & flowed back well thru $\frac{3}{4}$" choke.

07/27/2001 TIH & tagged fill @ 5470'. Circ hole clean to top of CIBP set @ 5550'. DO CIBP. TIH & tag fill @ 7410'. Circ hole clean to 7488'. PU above TOL & flowed back thru $\frac{3}{4}$" choke.

07/30/2001 TIH & tagged fill @ 7450' Circ hole clean to PBTD @ 7510'. PU above TOL & flow test well 12 hrs. thru $\frac{3}{4}$" choke. 600 MCF Gas, Trace WTR, Trace oil.

07/31/2001 TIH & tag fill @ 7495'. Circ clean to PBTD. PU above TOL & flowed back. TIH & found 0 fill. PU above TOL & SDFN.

08/01/2001 TIH W/production TBG @ land 7285'. ND BOP's & NUWH. Pull TBG plug.

08/02/2001 RDMOSU. Rig Release @ 09:30 hrs.