

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

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other		5. Lease Serial No. NMSH - 078046	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator BP AMERICA PRODUCTION COMPANY		7. Unit or CA Agreement Name and No.	
3. Address P.O. BOX 3092 HOUSTON, TX 77253		8. Lease Name and Well No. HUGHES B 2B	
3a. Phone No. (include area code) Ph: 281.366.4491		9. API Well No. 30-045-30937	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SWSE Tract 0 895FSL 1660FEL 36.47400 N Lat, 107.42800 W Lon At top prod interval reported below NWSE Tract J 2350FSL 1800FEL 36.47400 N Lat, 107.42800 W Lon At total depth NWSE Tract J 2350FSL 1800FEL 36.47400 N Lat, 107.42800 W Lon		10. Field and Pool, or Exploratory BLANCO MESAVERDE	
14. Date Spudded 04/10/2002		11. Sec., T., R., M., or Block and Survey or Area Sec 19 T29N R8W Mer NMP	
15. Date T.D. Reached 04/24/2002		12. County or Parish SAN JUAN	
16. Date Completed ☐ D & A ☒ Ready to Prod. 05/10/2002		13. State NM	
17. Elevations (DF, KB, RT, GL)* 6480 GL			
18. Total Depth: MD TVD 6064 5731	19. Plug Back T.D.: MD TVD 6060 5681	20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) TOT		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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
13.500	9.625 H-40	32.3	0	216		194		0	
8.750	7.000 J-55	20.0	0	3612		450		0	
6.250	4.500 J-55	10.5	3512	6063		150		3512	

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	5700							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	4848	5981	4848 TO 5149	3.125	45	
B)			5226 TO 5572	3.125	46	
C)			5612 TO 5981	3.125	50	
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
5612 TO 5981	97,000# OF 16/30 BRADY SAND, 70% QUALITY FOAM & N2
5226 TO 5572	93,000# OF 16/30 BRADY SAND, 70% QUALITY FOAM & N2
4848 TO 5149	93,000# OF 16/30 BRADY SAND, 70% QUALITY FOAM & N2

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
05/07/2002	05/07/2002	12	→	1.0	1100.0	0.0			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	
		140.0	→					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 #11288 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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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	4848	5981		CLIFF HOUSE MENESEE POINT LOOKOUT MANCOS	4848 5151 5601 5984

32. Additional remarks (include plugging procedure):
NO REMARK PROVIDED

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 #11288 Verified by the BLM Well Information System.
For BP AMERICA PRODUCTION COMPANY, sent to the Farmington**

Name (please print) MARY CORLEYTitle AUTHORIZED REPRESENTATIVESignature (Electronic Submission)Date 05/13/2002

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.

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HUGHES B 2B
COMPLETION SUBSEQUENT REPORT
05/13/2002

04/23/2002 RU & NU Frac head & Frac valve – test liner to 4500#. HELD OK.

04/24/2002 RU & run TDT log from 3050' to 6051'.

04/26/2002 RU & Perf and perf Point Lookout with 1 SPF, 120° phasing as follows:

5981', 5976', 5963', 5948', 5918', 5914', 5910', 5894', 5881', 5869', 5859', 5853', 5850',
5844', 5840', 5830', 5817', 5812', 5805', 5797', 5792', 5782', 5772', 5741', 5736', 5732',
5729', 5723', 5721', 5718', 5715', 5706', 5704', 5701', 5694', 5690', 5686', 5676', 5672',
5666', 5661', 5656', 5654', 5650', 5644', 5637', 5632', 5620', 5617', 5612'

04/29/2002 RU & Frac w/97,000# of 16/30 Brady Sand, 70% Quality Foam & N2. RU, TIH & set CIBP @ 5590'. RU & perf Menefee with 1 SPF, 120° phasing as follows:

5572', 5570', 5558', 5542', 5533', 5526', 5520', 5508', 5502', 5496', 5490', 5480', 5476',
5465', 5461', 5456', 5448', 5444', 5438', 5430', 5426', 5419', 5413', 5404', 5399', 5394',
5388', 5385', 5378', 5372', 5367', 5356', 5344', 5339', 5329', 5322', 5316', 5308', 5300',
5296', 5276', 5265', 5255', 5238', 5234', 5226'

RU & Frac w/93,000# of 16/30 Brady Sand, 70% Quality Foam & N2. RU, TIH & set CIBP @ 5180'. RU & perf Cliff House with 1 SPF, 120° phasing as follows:

5149', 5144', 5138', 5131', 5126', 5117', 5109', 5094', 5084', 5080', 5078', 5070', 5064',
5060', 5056', 5049', 5046', 5033', 5026', 5018', 5012', 4999', 4995', 4988', 4973', 4966',
4961', 4958', 4955', 4951', 4948', 4945', 4940', 4934', 4926', 4922', 4913', 4909', 4896',
4877', 4873', 4868', 4859', 4854', 4848'

RU & Frac w/93,000# of 16/30 Brady Sand, 70% Quality Foam & N2. ND Frac & NU Flow back head. SI well.

04/30/2002 Open well on ¼" choke for 8 hrs. SI well.

05/01/2002 Well SI. ND Frac valve & NU BOP.

05/02/2002 Blow down well. TIH & tag fill @ 4500'. C/O to 5127'. PU above liner & flow well to pit w/watchman – flowing foam and N2.

05/03/2002 TIH & tag 50' of fill. C/O to CIBP set @ 5180'. DO CIBP. PU above liner & flow well on ¾" choke w/watchman.

05/04/2002 Flow well thru ¾" choke – flowing back N2 foam. SI well.

05/05/2002 Open well & flow for 8 hrs. SI well.

05/06/2002 TIH & DO CIBP set @ 5180'. C/O to PBTD @ 6060'. PU above liner & flow well to pit thru ¾" choke w/watchman.

ENTERED
AFMSS

MAY 20 2002

FORWARDED TO WELL DEPT.

BY

MJH

05/07/2002 TIH & tag 50' of fill. C/O to PBTB. PU above perfs & flow test well 12 hrs. thru 3/4" choke. 1100 MCF Gas, trace S WTR, Trace oil.

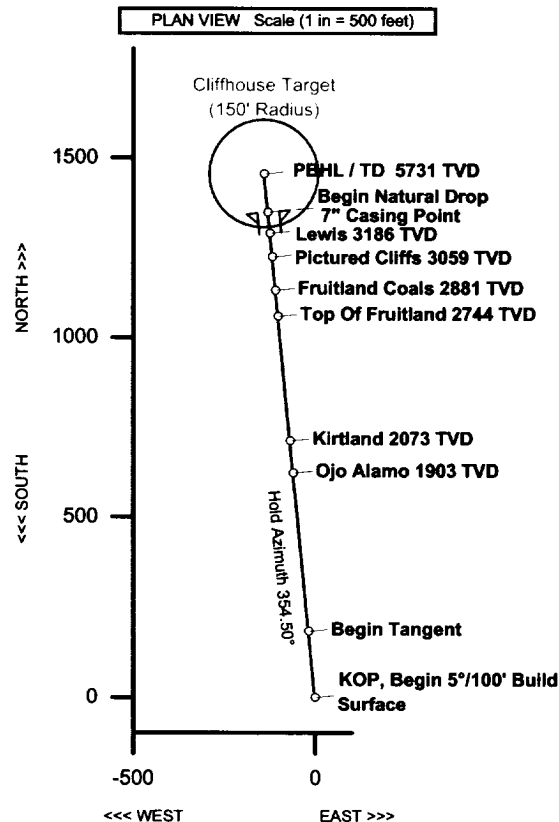
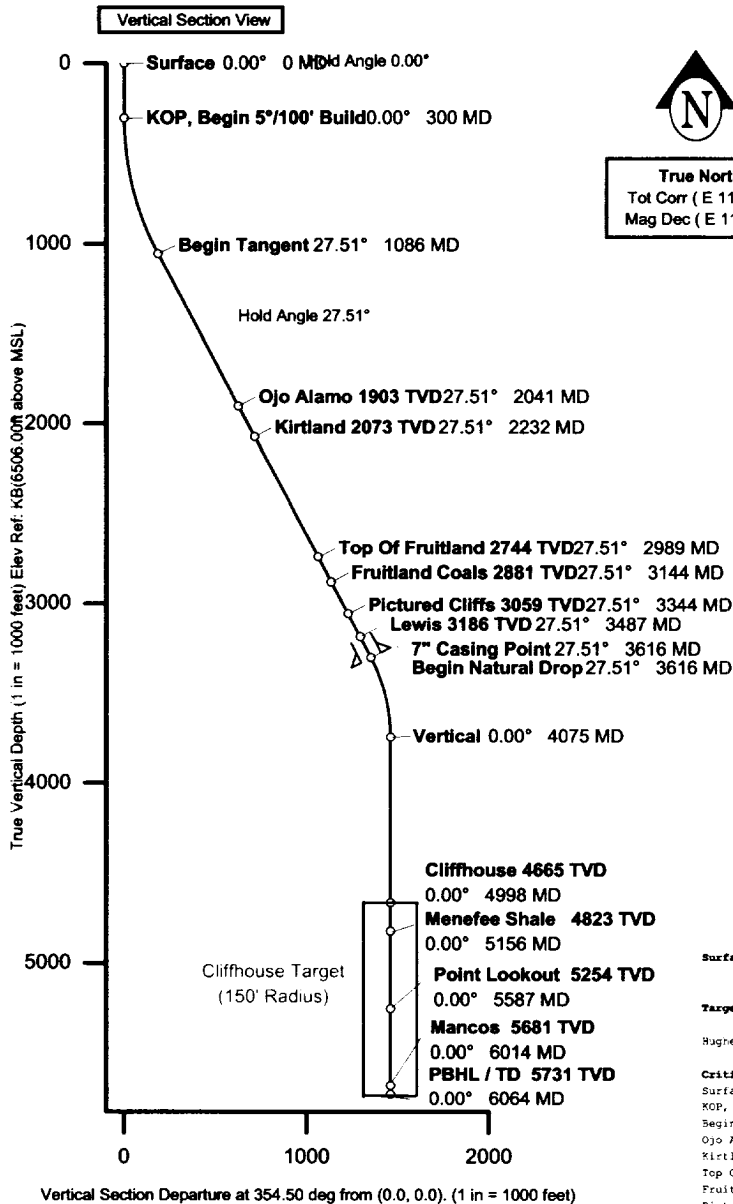
05/08/2002 TIH & tag 45' of fill. C/O to PBTB. PU above liner & flow back well.

05/09/2002 TIH & tag 28' of fill. C/O to PBTB. PU above perfs & flow back well.

05/10/2002 TIH & found 18' of fill. C/O to PBTB. RU & TIH w/BHA & TBG plug. TIH w/ 2 3/8" production TBG & land @ 5700'. ND BOP. NUWH. Pull TBG plug. RD & MOSU. Rig Release @ 17:00 hrs.

Schlumberger BP

WELL Hughes B 2B	FIELD NM, San Juan County	STRUCTURE BP 19 T29N R8W
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Surface Location: North:2007835.00 ftUS, East:2561475.60 ftUS MAD83 New Mexico State Planes, Western Zone, US Feet

Target Name	Grid Coord		TVD ft	VSEC ft	Local Coord		Shape	Major Axis
	N(+) / S(-) ftUS	E(+) / W(-) ftUS			N(+) / S(-) ft	E(+) / W(-) ft		
Hughes B 2B Cliff	2009290.70	2561343.92	4665.00	1461.72	1455.00	-140.00	Circle	300.0
Critical Points								
Surface	0.00	0.00	354.50	0.00	0.00	0.00		0.00
KOP, Begin 5\"/>								

Quality Control
Date Drawn: 04-Apr-2002
Drawn by: John O'Keefe
Checked by: Allen Starkey
Client OK: _____

ENTERED
AFMSS

MAILED FOR FLOOR

MAY 20 2002

BY

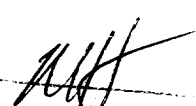
[Signature]

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Proposed Well Profile

Report Date: April 4, 2002 Client: BP Field: NM, San Juan County Structure / Slot: BP 19 T29N R8W (Hughes B 2B) / Hughes B 2B Well: Hughes B 2B Borehole: Original Hole UWI / API#: Survey Name / Date: Rev6 jok 02-Apr-02 (3300 Csg) / April 4, 2002 Tort / AHD / DDI / ERD ratio: 55.022° / 1461.72 ft / 4.930 / 0.255 Grid Coordinate System: NAD83 New Mexico State Planes, Western Zone, US Feet Location Lat / Long: N 36 31 0.000, W 108 23 0.001 Location Grid N/E Y/X: N 2007835.000 ftUS, E 2561475.600 ftUS Grid Convergence Angle: -0.32728780° Grid Scale Factor: 0.99994655	Survey / DLS Computation Method: Minimum Curvature / Lubinski Vertical Section Azimuth: 354.500° Vertical Section Origin: N 0.000 ft, E 0.000 ft TVD Reference Datum: KB TVD Reference Elevation: 6506.0 ft relative to MSL Sea Bed / Ground Level Elevation: 6492.000 ft relative to MSL Magnetic Declination: 11.270° Total Field Strength: 51555.570 nT Magnetic Dip: 63.366° Declination Date: November 16, 2001 Magnetic Declination Model: BGGM 2001 North Reference: True North Total Corr Mag North -> True North: +11.270° Local Coordinates Referenced To: Well Head
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Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N-S (ft)	E-W (ft)	Closure (ft)	at Azim (°)	DLS (°/100ft)	TF (°)
Surface	0.00	0.00	354.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5.5MTF
KOP, Begin 5°/100' Build	300.00	0.00	354.50	300.00	0.00	0.00	0.00	0.00	0.00	0.00	-5.5MTF
	400.00	3.50	354.50	399.94	3.05	3.04	-0.29	3.05	354.50	3.50	-5.5MTF
	500.00	7.00	354.50	499.50	12.20	12.15	-1.17	12.20	354.50	3.50	0.0
	600.00	10.50	354.50	598.32	27.41	27.29	-2.63	27.41	354.50	3.50	0.0
	700.00	14.00	354.50	696.03	48.63	48.40	-4.66	48.63	354.50	3.50	0.0
	800.00	17.50	354.50	792.26	75.77	75.42	-7.26	75.77	354.50	3.50	0.0
	900.00	21.00	354.50	886.66	108.73	108.23	-10.41	108.73	354.50	3.50	0.0
	1000.00	24.50	354.50	978.86	147.40	146.72	-14.12	147.40	354.50	3.50	0.0
	1086.02	27.51	354.50	1056.17	185.11	184.26	-17.73	185.11	354.50	3.50	0.0
Begin Tangent											
Ojo Alamo 1903 TVD	2040.82	27.51	354.50	1903.00	626.15	623.27	-59.97	626.15	354.50	0.00	0.0
Kirtland 2073 TVD	2232.50	27.51	354.50	2073.00	714.68	711.40	-68.45	714.68	354.50	0.00	0.0


 ENTERED
 AFMRS
 MAY 20 2002


Top Of Fruitland 2744 TVD	2989.04	27.51	354.50	2744.00	1064.14	1059.25	-101.92	1064.14	354.50	0.00	0.0
Fruitland Coals 2881 TVD	3143.51	27.51	354.50	2881.00	1135.49	1130.27	-108.75	1135.49	354.50	0.00	0.0
Pictured Cliffs 3059 TVD	3344.20	27.51	354.50	3059.00	1228.20	1222.55	-117.63	1228.20	354.50	0.00	0.0
Lewis 3186 TVD	3487.39	27.51	354.50	3186.00	1294.34	1288.39	-123.97	1294.34	354.50	0.00	0.0
7" Casing Point	3615.93	27.51	354.50	3300.00	1353.71	1347.49	-129.66	1353.71	354.50	0.00	0.0
Begin Natural Drop	3615.99	27.51	354.50	3300.05	1353.74	1347.52	-129.66	1353.74	354.50	0.00	180.0
	3700.00	22.47	354.50	3376.17	1389.22	1382.83	-133.06	1389.22	354.50	6.00	180.0
	3800.00	16.47	354.50	3470.41	1422.54	1416.00	-136.25	1422.54	354.50	6.00	180.0
Vertical	3900.00	10.47	354.50	3567.62	1445.82	1439.17	-138.48	1445.82	354.50	6.00	180.0
	4000.00	4.47	354.50	3666.72	1458.82	1452.11	-139.72	1458.82	354.50	6.00	-5.5MTF
Cliffhouse 4665 TVD	4074.50	0.00	354.50	3741.15	1461.72	1455.00	-140.00	1461.72	354.50	6.00	-5.5MTF
	4998.35	0.00	354.50	4665.00	1461.72	1455.00	-140.00	1461.72	354.50	0.00	-5.5MTF
Menefee Shale 4823 TVD	5156.35	0.00	354.50	4823.00	1461.72	1455.00	-140.00	1461.72	354.50	0.00	-5.5MTF
Point Lookout 5254 TVD	5587.35	0.00	354.50	5254.00	1461.72	1455.00	-140.00	1461.72	354.50	0.00	-5.5MTF
Mancos 5681 TVD	6014.35	0.00	354.50	5681.00	1461.72	1455.00	-140.00	1461.72	354.50	0.00	-5.5MTF
PBHL / TD 5731 TVD	6064.35	0.00	354.50	5731.00	1461.72	1455.00	-140.00	1461.72	354.50	0.00	0.0MTF

Survey Error Model: Wolff & deWardt 1.0000 sigma

Surveying Programme:

<u>MD From (ft)</u>	<u>MD To (ft)</u>	<u>EOU Freq</u>	<u>Survey Tool Type</u>
0.00	6064.35	Act-Stns	Anadrill MWD (none assigned-default tool used)