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DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTBureau of Land Management
Farmington Field OfficeFORM APPROVED
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Expires July 31, 2010

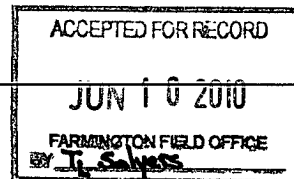
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
Contract 462

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other		6. If Indian, Allottee or Tribe Name Jicarilla Apache Tribe							
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resvr, Other _____		7. Unit or CA Agreement Name and No.							
2. Name of Operator Black Hills Gas Resources		8. Lease Name and Well No Jicarilla 462-23 #33							
3. Address 3200 N 1st St, Bloomfield, NM 87413		9. AFI Well No 30-039-29269-0051							
3a. Phone No. (include area code) (505) 634-1111 ext 22		10. Field and Pool or Exploratory Basin Mancos							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 1695' FSL 1812' FEL NW/SE Unit J ✓ At top prod. interval reported below At total depth		11. Sec., T., R., M., on Block and Surveyor Area Sec 23 T30N R3W							
14. Date Spudded 4/10/2006		15. Date T.D. Reached 5/02/2006							
16. Date Completed ☐ D&A ☒ Ready to Prod 6/9/10		17. Elevations (DF, RKB, RT, GL) 7187 GL & 7200 KB							
18. Total Depth. MD TVD 8580		19. Plug Back T.D. MD TVD 8550							
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) Induction, Density-Neutron, Cmt Bond Logs							
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST Run? ☒ No ☐ Yes (Submit Report) Directional Survey? ☐ No ☒ Yes (Submit copy)									
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
12-1/4"	9-5/8", J-55	36	0	314'		190 STD	40	0' - Circ	0
8-3/4"	7", J-55	23	0	3770'		410 65/35 Poz	142	680' - CBL	0
						300 50/50 Poz	71		
6-1/4"	4-1/2", N-80	11.6	3486	8580		415 DK Lite	132	5980' - CBL	0
	4-1/2", N-80	11.6	0	3520	Liner Tie Back to	surface w/ Logan 10K	overshot ✓		
24. Tubing Record									
Size	Depth Set (MD)	Pacher Depth (MD)	Size	Depth Set (MD)	Pacher Depth (MD)	Size	Depth Set (MD)	Pacher Depth (MD)	
2 - 3/8"	7077'								
25. Producing Intervals				26. Perforation Record					
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A Basin Mancos	6490 ✓	8240 ✓	7478-7607	0.34	42	Open			
B			7374-7451	0.34	27	Open			
C			7258-7340	0.34	30	Open			
D			7162-7232	0.34	33	Open			
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
7478-7607		2100 gal 15% HCL, 7500# 100m wht sd, 261,097# 40/70 Az brwn sd, 9395 bbis slick water							
7374-7451		1900 gal 15% HCL, 7500# 100m wht sd, 155,198# 40/70 Az brwn sd, 5763 bbis slick water							
7258-7340		2000 gal 15% HCL, 6400# 100m wht sd, 165,658# 40/70 Az brwn sd, 5970 bbis slick water							
7162-7232		2000 gal 15% HCL, 9440# 100m wht sd, 150,565# 40/70 Az brwn sd, 5809 bbis slick water							
28. Production - Interval A									
Date First Produce	Test Date	Hours Tested	Test Production X	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
READY	6/9/2010	4HR	→		23	20			FLOWING ✓
Choke Size	Tbg. Press Flwg. SI	Csg Press	24 HR. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
1/8"	1080	1400	→		140 ✓	120 ✓		DIST. 3	CLEANING UP TO FLOWBACK TANK ✓
28a. Production - Interval B									
Date First Produce	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 page 2)

NMOCD



28a. Production - Interval C

Date First Produce	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	
			→						

28a. Production - Interval d

Date First Produce	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 (Solid, used for fuel, vented, etc.)

VENT

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
Manco	6490	8240	Gas	SAN JOSE NACIMIENTO OJO ALAMO FRUITLAND PICTURED CLIFF LEWIS CLIFFHOUSE MENELEE POINT LOOKOUT MANCOS	13 1977 3185 3611 3700 3808 5790 5870 6000 6490

32. Additional remarks (include plugging procedure):

Jicarilla 462-23 #33 - Basin Mancos Well

33. Indicate which items have been attached by placing a check in the appropriate boxes

- ☐ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other

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

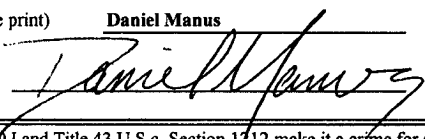
Name (please print)

Daniel Manus

Title

Regulatory Technician

Signature



Date

June 9, 2010

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1712 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.

(Continued on page 3)

(Form 3160-4, page 2)

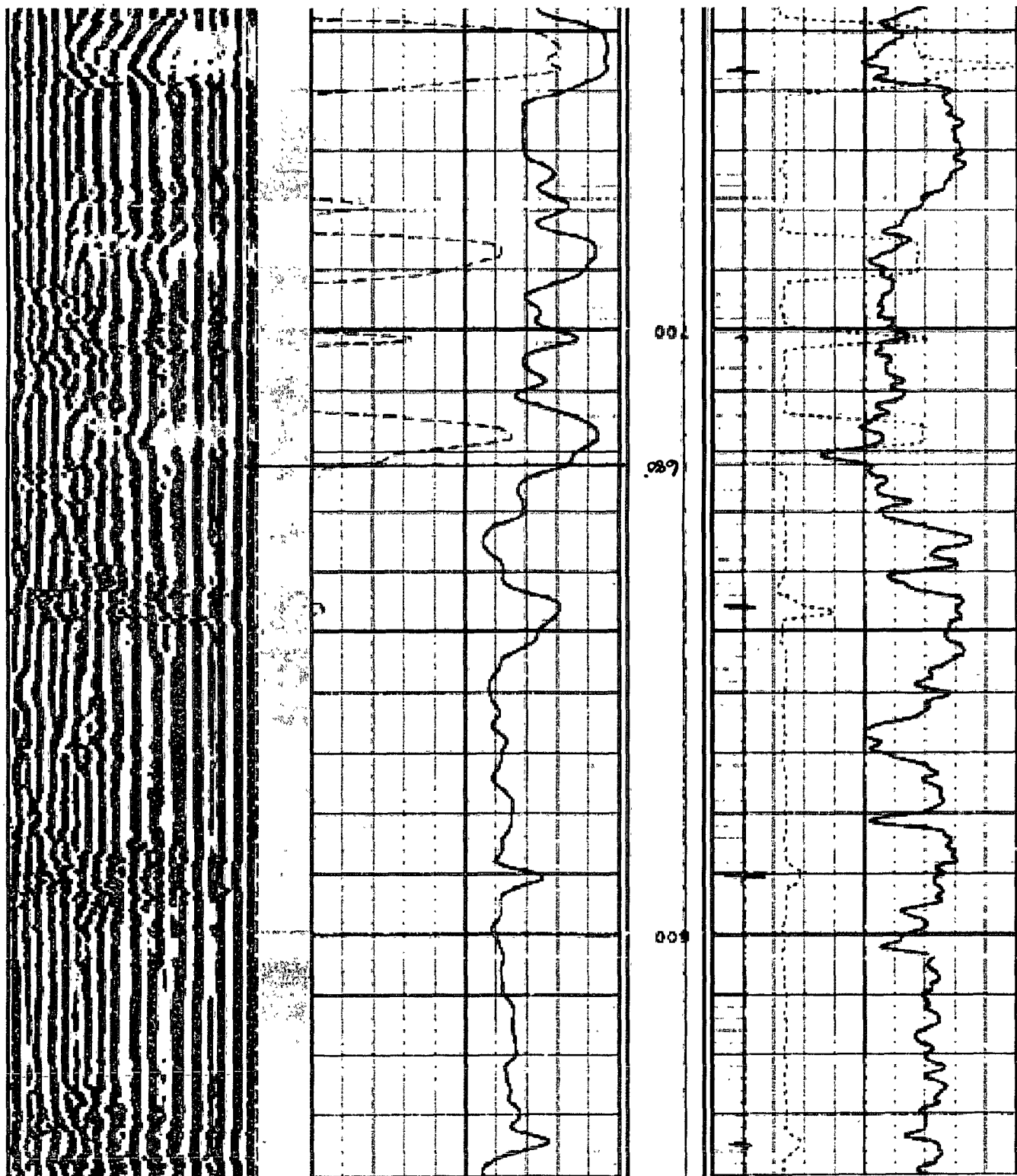
therefore, no remedial action is required

- San Jose is only formation exposed!

Surface = San Jose
Nacimiento = 1917'

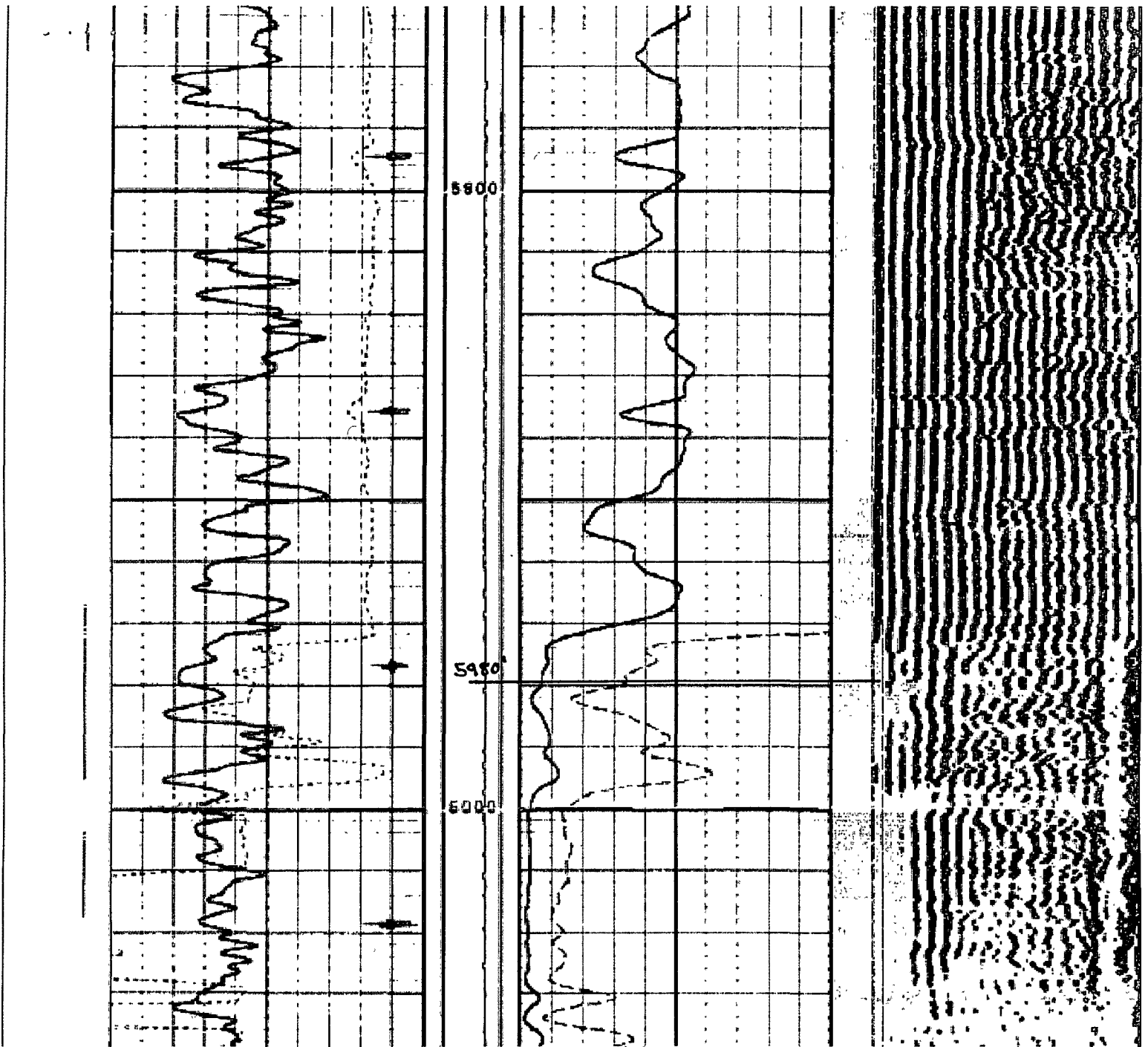
- Top of cement behind 7" casing at 680'

- Geologic tops



17 layers
6/10/2010

Mantecosa Completion



- Top of cement behind 4 1/2" string is 5980'
- 7" shoe was set at 2770', TOC at 680'
- open interval from (5980 - 2770) FT
- Mesa Verde group is only zone open in this interval, therefore, no remedial action required

Geologic tops:

PC = 3576'

Cliffhouse = 5574'

Menefee = 5679'

Point lookout = 5827'

Mancos = 6293'

* Well located above Chacra line, Lewis Shale is part of Mesa Verde group